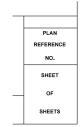
INDEX

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3	CT1	CERTIFICATION SHEET
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6	PV1	PAVING AND MARKING PLAN
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28	TCS1	CONSTRUCTION SIGNS CLASS A
		Concentration didno dendo A
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SHEET NO.	PLAN REFERENCE NO.	TITLE
	I .	



NOTE: ALL SHEET REFERENCES, FIRST NOS. OF STRUCTURE CODE DESIGNATIONS AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS, REFER TO THE ENTRY IN THE PLAN REFERENCE NUMBER BOX.

FILE NAME	G:\444307\03-Design\Design\I-5	i\I-5 Koontz Road bridge repair\18 CAD\XL6514_PS_IN.d	gn				
TIME	8:39:37 AM				REGION NO.	STATE	FED.AID PROJ.NO.
DATE	11/22/2022				10	WASH	ER-2C02001-2
PLOTTED BY	geistr				1	WASH	
DESIGNED BY	R. GEIST					IUMBER	
ENTERED BY	R. GEIST				22X	344	
CHECKED BY	K. ECKLUND				CONTI	RACT NO.	LOCATION NO.
PROJ. ENGR.	P. MASON						
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			

7		
Washington State Department of Transpo		
	DATE	DATE

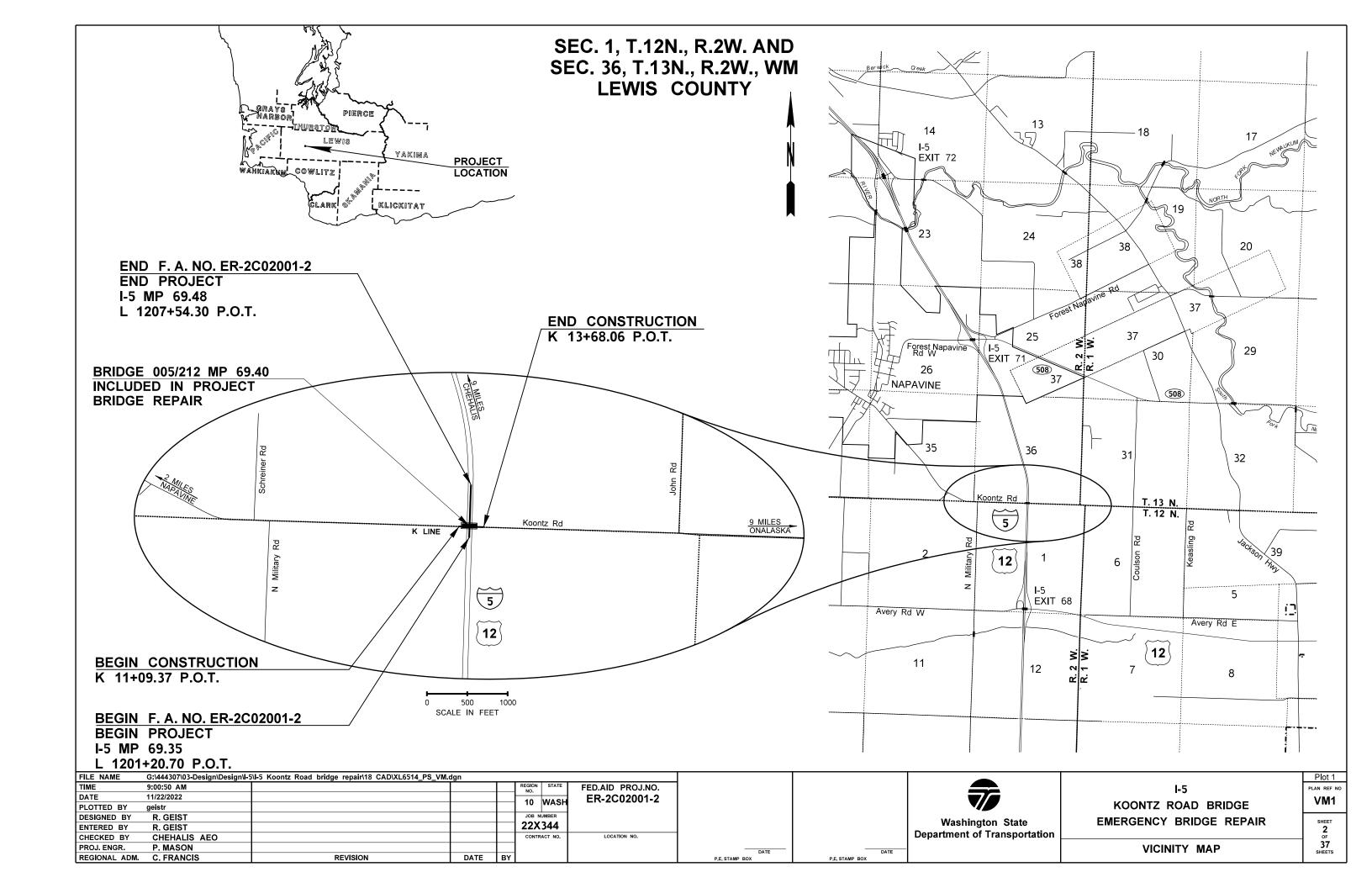
7	I-5
	KOONTZ ROAD BRIDGE
hington State nt of Transportation	EMERGENCY BRIDGE REPAIR
·	INDEX

PLAN REF. NO.

SHEET

OF

37
SHEETS



PROJECT LICENSED PROFESSIONAL CERTIFICATES

Paul Muson	Scott Sey	Lanny L. M.	
Paul Mason	Scott Langer	Harvey L. Coffman	
Dec 22, 2022	Dec 21, 2022	Dec 21, 2022	
AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.
AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.
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NOTES:

THIS PLAN SET WAS DEVELOPED ELECTRONICALLY UNDER THE DIRECT SUPERVISION OF THE LICENSED PROFESSIONALS THAT HAVE AFFIXED THEIR SIGNATURE TO THIS PAGE.

THIS SHEET SERVES AS THE CERTIFICATION BY THE ABOVE LICENSED PROFESSIONALS OF ALL SHEETS IN THIS PLAN SET WHERE THEIR STAMPS AND SIGNATURES APPEAR.

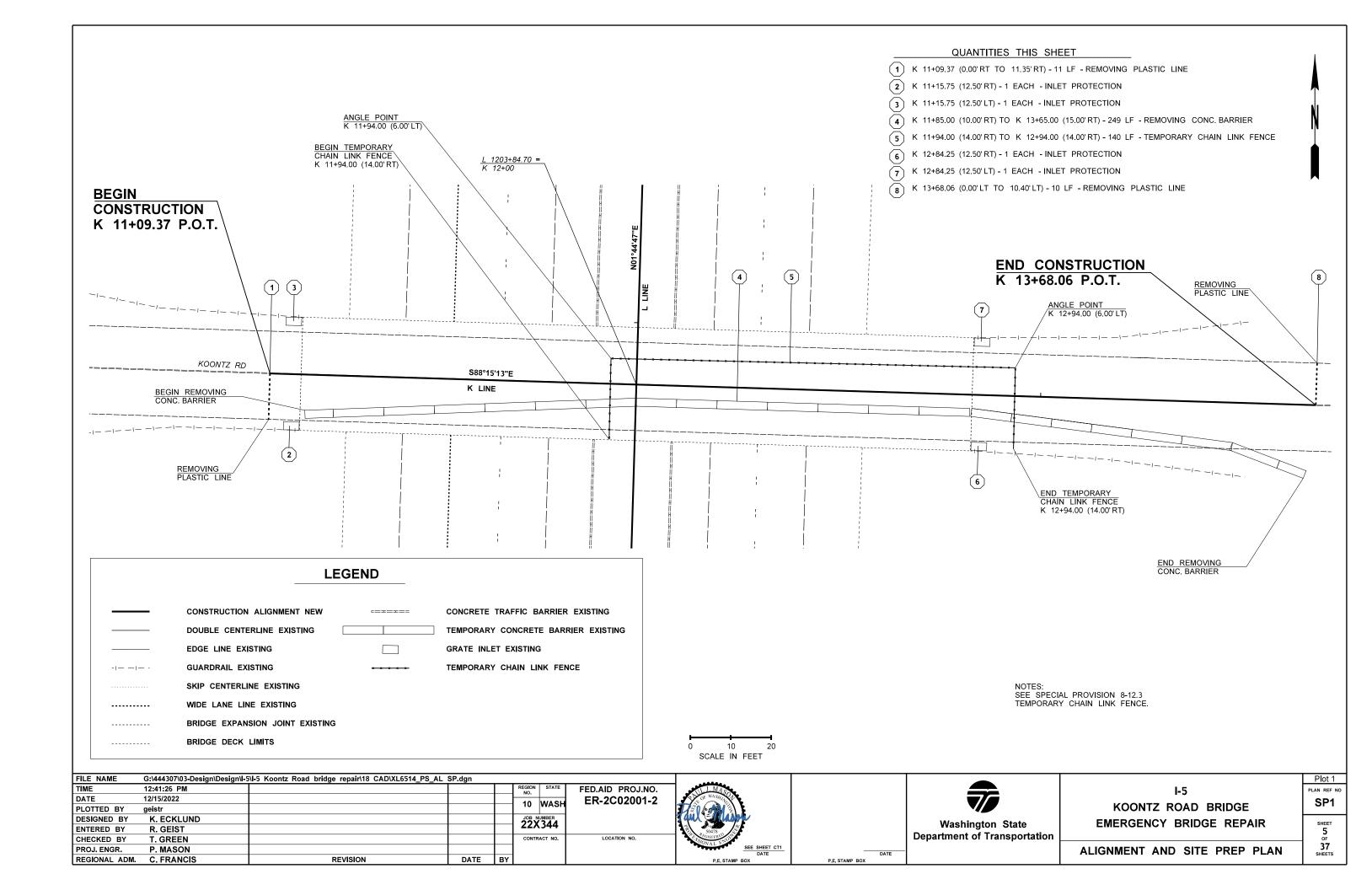
FILE NAME	G:\444307\03-Design\Design\I-5	5\I-5 Koontz Road bridge repair\18 CAD\XL6514_PS_CT.c	dgn							1	Plot 1
TIME	8:36:57 AM			R	REGION STATE	FED.AID PROJ.NO.				l-5	PLAN REF NO
DATE	11/22/2022				10 WASH	ER-2C02001-2					CT1
PLOTTED BY	geistr				10 WASH					KOONTZ ROAD BRIDGE	
DESIGNED BY	R. GEIST				JOB NUMBER				Washington State	EMERGENCY BRIDGE REPAIR	SHEET
ENTERED BY	R. GEIST				22X344				9		3 '
CHECKED BY	K. ECKLUND				CONTRACT NO.	LOCATION NO.			Department of Transportation		OF '
PROJ. ENGR.	P. MASON						DATE	DATE		CERTIFICATION SHEET	37 SHEETS
REGIONAL ADM	. C. FRANCIS	REVISION	DATE	BY			P.E. STAMP BOX	P.E. STAMP BOX		DEKINIOATION ONEET	J SHEETS ,

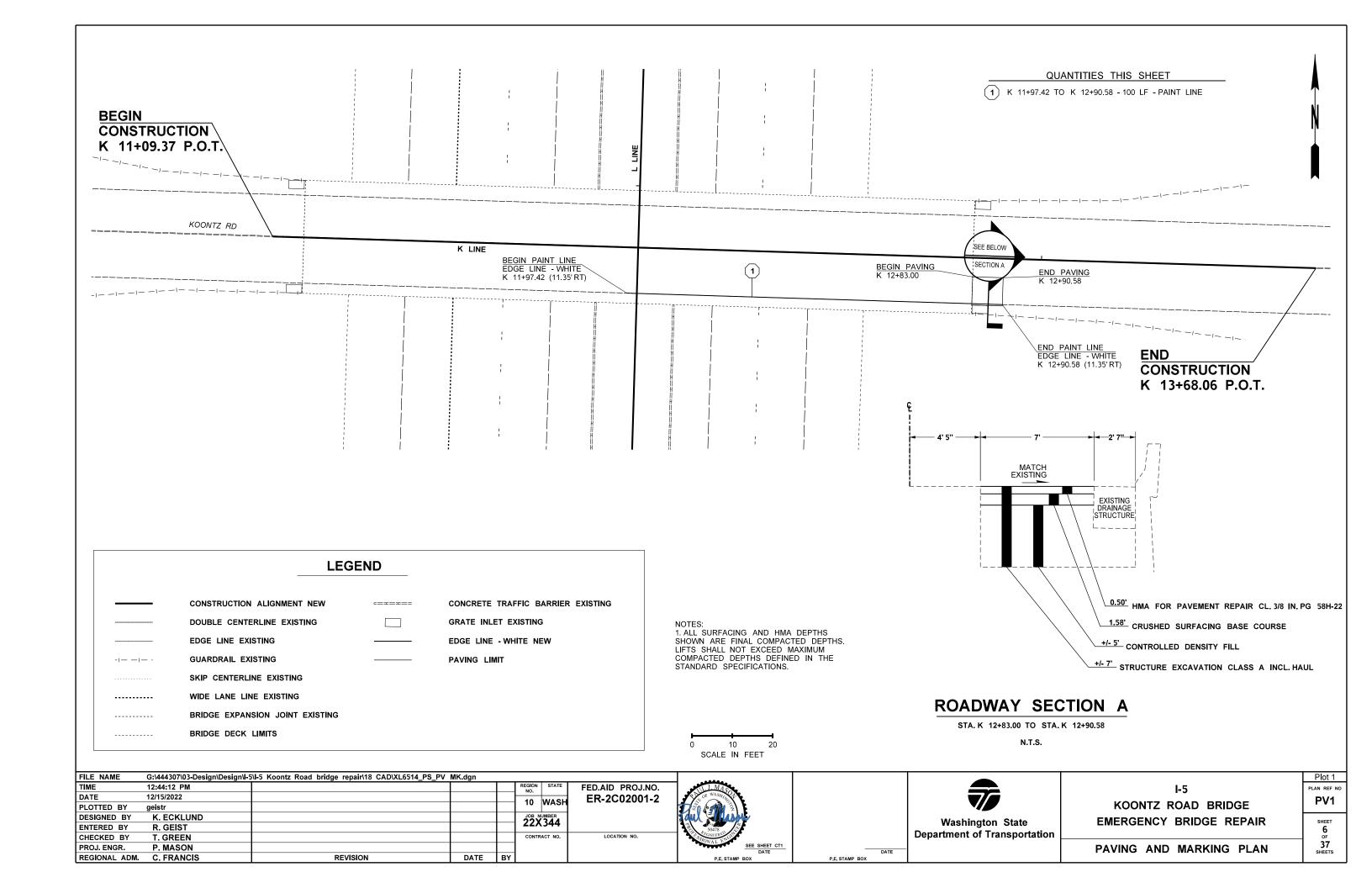
SUMMARY OF QUANTITIES

		SUB-TOTAL	SUB-TOTAL				GROUP 1	GROUP 2									
ITEM	TOTAL	SECTION	SECTION	STD.			I-5	THIRD									
NO		I-07.2(1)	I-07.2(2)	ITEM	UNIT	ITEM	MP 69.35	PARTY									
	QUANTITY	OF STANDARD	OF STANDARD	NO.			TO MP 69.48	DAMAGES									
		SPECS	SPECS				WIF 69.46										
				 		PREPARATION	<u> </u>	i				1		<u> </u>			
1	LUMP SUM		LUMP SUM	0001	L.S.	MOBILIZATION	L.S.	İ	İ	i i	i	İ		i	i i	i	i
2	LUMP SUM		LUMP SUM	0061	L.S.	REMOVING PORTION OF EXISTING BRIDGE NO. 5/212	L.S.	İ	İ	i i	İ	İ		İ	i i	İ	i
3	249.00		249.00	0145	L.F.	REMOVING CONC. BARRIER	249.00	İ	İ	j i	İ	İ		İ	i i	ĺ	i
4	21.00		21.00	0190	L.F.	REMOVING PLASTIC LINE	21.00				ĺ			ĺ	j j		i
	I			Ī	Ī		_ii	1	ĺ	l i	i			I			ī
					1	STRUCTURE	_[[1		1			1			1
5	16.00		16.00	4006	C.Y.	STRUCTURE EXCAVATION CLASS A INCL. HAUL	16.00				1						
6	LUMP SUM		LUMP SUM	4013	L.S.	SHORING OR EXTRA EXCAVATION CL. A BRIDGE NO. 5/212	L.S.		1		1			1			
7	81.00		81.00	4269	L.F.	PRESTRESSED CONC. GIRDER W50G	81.00	1	1		1			[1
8	-1.00		-1.00	4219	DOL	DEFICIENT STRENGTH CONC. PRICE ADJUSTMENT	-1.00	1	1		1			1			
9	LUMP SUM		LUMP SUM	4300	L.S.	SUPERSTRUCTURE - BRIDGE NO. 5/212 REPAIR	L.S.		1		1			1			1
10	87.00		87.00	4415	L.F.	TRAFFIC BARRIER	87.00	1	1		1			1			
								1			1						
						SURFACING		1	1	1	1			1			
11	6.00		6.00	5100	TON	CRUSHED SURFACING BASE COURSE		1	<u> </u>	1	1			<u> </u>			
					1		_		1		1			1			
						HOT MIX ASPHALT		1	1	1	1			1			
12	2.10		2.10	5738	TON	HMA FOR PAVEMENT REPAIR CL. 3/8 IN. PG 58H-22	2.10	1	<u> </u>		1			<u> </u>			
13	-1.00		-1.00	5830	DOL	JOB MIX COMPLIANCE PRICE ADJUSTMENT	-1.00				1						
14	5.00		5.00	5837	DOL	ASPHALT COST PRICE ADJUSTMENT		1	<u> </u>	1	1			<u> </u>			
							_		<u> </u>		1			<u> </u>			
						EROSION CONTROL AND ROADSIDE PLANTING	_		<u> </u>		1			<u> </u>			
15	12.00			•	•	ESC LEAD	12.00		l		1			l			
16	4.00			•		INLET PROTECTION	4.00	<u> </u>	<u> </u>		<u> </u>			<u> </u>			
17	LUMP SUM		LUMP SUM	6488	L.S.	EROSION CONTROL AND WATER POLLUTION PREVENTION	L.S.		<u> </u>		l			<u> </u>			
$oxed{oxed}$				<u> </u>	<u> </u>		_!	<u> </u>	<u> </u>		<u> </u>			<u> </u>	<u> </u>		
$oxed{oxed}$					<u> </u>	TRAFFIC	_!	<u> </u>	<u> </u>	<u> </u>	<u> </u>			<u> </u>	<u> </u>		!
18	50.00			•	•	TEMPORARY BARRIER	50.00				ļ			<u> </u>			
19	7500.00				-	REPAIR TRANSPORTABLE ATTENUATOR	7,500.00	<u> </u>	<u> </u>	<u> </u>	<u> </u>			<u> </u>	<u> </u>		
20	100.00			•		PAINT LINE	100.00		<u> </u>		<u> </u>			<u> </u>			
21	LUMP SUM			•		PERMANENT SIGNING	L.S		!		!	<u> </u>		<u> </u>	<u> </u>		!
22	LUMP SUM			•		PROJECT TEMPORARY TRAFFIC CONTROL	L.S.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>		
23	25000.00			•		WORK ZONE SAFETY CONTINGENCY	25,000.00	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	
24	381.00			•		CONSTRUCTION SIGNS CLASS A	381.00		<u> </u>	<u> </u>	<u> </u>			<u> </u>	<u> </u>		
25	1.00		1.00	6975	I DOF	WSP REIMBURSEMENT	1.00		<u> </u>		<u> </u>			<u> </u>		<u> </u>	
!!			<u> </u>	1		<u> </u>	_!!	<u> </u>	<u> </u>		<u> </u>	1		<u> </u>	<u> </u>		<u>_</u>
			10.00	1 7045	1 0)	OTHER ITEMS		<u> </u>	<u> </u>		<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	
26	12.00			•		CONTROLLED DENSITY FILL	12.00	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	
27	LUMP SUM			J 7037		STRUCTURE SURVEYING	L.S.	<u> </u>	<u> </u>		<u> </u>	1		<u> </u>		<u> </u>	
28	140.00		140.00	1 7715	•	TEMPORARY CHAIN LINK FENCE	140.00	1	<u> </u>		1	1		<u> </u>		<u> </u>	
29	5000.00			•	-	FORCE ACCOUNT ROAD REPAIRS	5,000.00	1 500	<u> </u>	<u> </u>	<u> </u>	1		<u> </u>	<u> </u>	<u> </u>	<u>-</u>
30	5.00			•	:	REIMBURSEMENT FOR THIRD PARTY DAMAGE		5.00	<u> </u>		<u> </u>	1		<u> </u>		<u> </u>	
31	-1.00			•	•	MINOR CHANGE	-1.00	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	
32	-1.00					AGGREGATE COMPLIANCE PRICE ADJUSTMENT	-1.00	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	
33	LUMP SUM		LUMP SUM	1//36	L.S.	SPCC PLAN	L.S.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	
					<u> </u>		_	l	I	<u> </u>	I	l		I	I		<u> </u>

GROUP	GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
LEGEND	1	005	210100	**	STATE, FEDERAL

		REGION	STATE	FEDERAL AID PROJECT. NO.		1.5	SQ1
		10	W/A	ER-2C02001-2		I-5	SQI
		10	WA		Washington State	KOONTZ ROAD BRIDGE	SHEET
		JOB NU			Department of Transportation	EMERGENCY BRIDGE REPAIR	4
		22X3	344/5		Department of Transportation		OF
		CONTRA				SUMMARY OF QUANTITIES	37
DATE	REVISION BY	000	000				SHEETS





SIGN INSTALLATION SPECIFICATIONS

SIGN	SIGN	SIGN	STA. LOC.	SIGN	SIZE	SHEETING	LETTER SIZE	POST	POST		CLEAF	RANCE				
NO.	CODE	DESCRIPTION	(or MP)	X	Υ	TYPE	OR CODE	MATERIAL	SIZE	H1	H2	H3	H4	V	W	REMARKS
1	E7-1	Chehalis 9, Olympia 36, Seattle 96	69.48	144"	84"	III or IV	STANDARD	STEEL	W8X21	16	18					

SIGN RELOCATION SPECIFICATIONS

SIGN	SIGN	SIGN	EXIST. STA. LOC.	NEW STA. LOC.	SIGN SIZE		SIGN SIZE		SIGN SIZE		SIGN SIZE		SIGN SIZE		SIGN SIZE		POST POST		F	POST LENGTH			CLEARANCE		
NO.	CODE	DESCRIPTION	(or MP)	(or MP)	X	Υ	MATERIAL	SIZE	H1	H2	H3	H4	V	W	REMARKS										
1	D3-301	Koontz Rd	69.39	69.39	60"	12"	BR MOUNT	OVERHEAD							MOUNT TO BRIDGE COLUMN. SIGN SHALL BE MOUNTED TO THE BRIDGE USING RESIN BONDED ANCHORS. SEE SPECIAL PROVISION 2-02.3(2) FOR REMOVAL DETAILS.										

CONSTRUCTION NOTES:

POST LENGTHS SHOWN ARE APPROXIMATE. FINAL VALUES SHALL BE DETERMINED IN THE FIELD PRIOR TO FABRICATION.

FOR STRUCTURE AND MOUNTING DETAILS SEE STANDARD PLAN SHEET SERIES "G".

FOR CODE REFERENCES AND STANDARD DETAILS SEE WASHINGTON STATE SIGN FABRICATION MANUAL.

CONTRACTOR SHALL STORE AND PROTECT RELOCATED SIGN FROM DAMAGE. ANY SIGN LOST, STOLEN OR DAMAGED SIGN SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

ALL W8X21 POST SHALL BE MOUNTED ON TYPE TP-B SUPPORTS PER G-24.60

FOR CLEARANCES VALUES V AND W NOT STATED IN THE PLANS REFER TO STANDARD PLAN G-20.10.

CONTRACTOR SHALL MOVE SIGN(S) AHEAD OR BACK ON STATION TO AVOID SIGN OBSTRUCTIONS.

PRECAST BASES ARE NOT PERMITTED.



FILE NAME	G:\Traffic\TRAFFIC DESIGN\0	01-ACTIVE DESIGN FILES\XL6514 I-5 Koontz Rd Bridge	Repair\Sheet\XL65	14_PS_SN.dgn						Plot 1
TIME	3:34:51 PM			REGION STATE	FED.AID PROJ.NO.	AT A. LAN			I-5	PLAN REF NO
DATE	12/15/2022			10 WASH	ER-2C02001-2	OF WASHING				SN1
PLOTTED BY	wachtek			IU WASH		5 6 5 D			KOONTZ ROAD BRIDGE	
DESIGNED BY	K. WACHTER			JOB NUMBER		South Angu	1	Washington State	EMERGENCY BRIDGE REPAIR	SHEET
ENTERED BY	K. WACHTER			22X344		53562		ı	LIVILINGLING! BRIDGE REPAIR	7
CHECKED BY	D. BURKEY/ R. SMITH			CONTRACT NO.	LOCATION NO.	SSIONAL ENGINE		Department of Transportation		OF
PROJ. ENGR.	S. LANGER			1		SEE SHEET CT1	DATE		SIGN INSTALLATION & RELOCATION SPECIFICATIONS	37
REGIONAL ADM.	C. FRANCIS	REVISION	DATE BY	1		P.E. STAMP BOX	P.E. STAMP BOX		SPECIFICATIONS	SHEETS

SIGN REMOVAL SPECIFICATIONS

				•		1			
SIGN	SIGN	SIGN	STA. LOC.	SIGN	SIZE	POST	POST	# OF	
NO.	CODE	DESCRIPTION	(or MP)	X	Y	MATERIAL	SIZE	POSTS	REMARKS
1	W20-901	TRAFFIC REVISION AHEAD	K MP 1.76	48"	48"	STEEL		1	SIGN, POST AND MOUNT TO REMAIN PROPERTY OF WSDOT, SEE SPECIAL PROVISION "SIGN REMOVAL" FOR ADDITIONAL DETAILS.
2	R2-1	SPEED LIMIT 40	K MP 1.79	30"	36"	STEEL		1	SIGN, POST AND MOUNT TO REMAIN PROPERTY OF WSDOT, SEE SPECIAL PROVISION "SIGN REMOVAL" FOR ADDITIONAL DETAILS.
3	W3-5	SPEED LIMIT 25 ADVISORY	K MP 1.82	48"	48"	STEEL		1	SIGN, POST AND MOUNT TO REMAIN PROPERTY OF WSDOT, SEE SPECIAL PROVISION "SIGN REMOVAL" FOR ADDITIONAL DETAILS.
4	R2-1	SPEED LIMIT 25	K MP 1.89	30"	36"	STEEL		1	SIGN, POST AND MOUNT TO REMAIN PROPERTY OF WSDOT, SEE SPECIAL PROVISION "SIGN REMOVAL" FOR ADDITIONAL DETAILS.
5	W20-4	ONE LANE ROAD AHEAD	K MP 1.93	48"	48"	STEEL		1	SIGN, POST AND MOUNT TO REMAIN PROPERTY OF WSDOT, SEE SPECIAL PROVISION "SIGN REMOVAL" FOR ADDITIONAL DETAILS.
6	W3-1A	STOP AHEAD	K MP 1.96	48"	48"	STEEL		1	SIGN, POST AND MOUNT TO REMAIN PROPERTY OF WSDOT, SEE SPECIAL PROVISION "SIGN REMOVAL" FOR ADDITIONAL DETAILS.
7	R1-1	STOP STOP STOP	K MP 2.00	36"	36"	STEEL		1	SIGN, POST AND MOUNT TO REMAIN PROPERTY OF WSDOT, SEE SPECIAL PROVISION "SIGN REMOVAL" FOR ADDITIONAL DETAILS.
8	R1-2A	WAIT FOR ONCOMING TRAFFIC	K MP 2.00	24"	18"				MOUNTED BELOW SIGN 7. SIGN, POST AND MOUNT TO REMAIN PROPERTY OF WSDOT, SEE SPECIAL PROVISION "SIGN REMOVAL" FOR ADDITIONAL DETAILS.
9	W12-401R	LATERAL CLEARANCE MARKER	K MP 2.01	12"	36"	SADDLE BARRIER			SIGN, POST AND MOUNT TO REMAIN PROPERTY OF WSDOT, SEE SPECIAL PROVISION "SIGN REMOVAL" FOR ADDITIONAL DETAILS.
10	W12-401L	LATERAL CLEARANCE MARKER	K MP 2.03	12"	36"	SADDLE BARRIER			SIGN, POST AND MOUNT TO REMAIN PROPERTY OF WSDOT, SEE SPECIAL PROVISION "SIGN REMOVAL" FOR ADDITIONAL DETAILS.
11	E7-1	Chehalis 9, Olympia 36, Seattle 96	I-5 MP 69.39	156" 48"	84"	BRG MOUNT			SEE SPECIAL PROVISIONS 2-02.3(2)
12	W1-4R	REVERSE CURVE RIGHT	K MP 2.03	48"	48"	STEEL		1	SIGN, POST AND MOUNT TO REMAIN PROPERTY OF WSDOT, SEE SPECIAL PROVISION "SIGN REMOVAL" FOR ADDITIONAL DETAILS.
13	R1-1	STOP STOP STOP	K MP 2.04	36"	36"	STEEL		1	SIGN, POST AND MOUNT TO REMAIN PROPERTY OF WSDOT, SEE SPECIAL PROVISION "SIGN REMOVAL" FOR ADDITIONAL DETAILS.
14	R1-2A	WAIT FOR ONCOMING TRAFFIC	K MP 2.04	24"	18"				SIGN, POST AND MOUNT TO REMAIN PROPERTY OF WSDOT, SEE SPECIAL PROVISION "SIGN REMOVAL" FOR ADDITIONAL DETAILS.
15	W3-1A	STOP AHEAD	K MP 2.08	48"	48"	STEEL		1	SIGN, POST AND MOUNT TO REMAIN PROPERTY OF WSDOT, SEE SPECIAL PROVISION "SIGN REMOVAL" FOR ADDITIONAL DETAILS.
16	R2-1	SPEED LIMIT 40	K MP 2.10	30"	36"	STEEL		1	SIGN, POST AND MOUNT TO REMAIN PROPERTY OF WSDOT, SEE SPECIAL PROVISION "SIGN REMOVAL" FOR ADDITIONAL DETAILS.
17	W20-4	ONE LANE ROAD AHEAD	K MP 2.11	48"	48"	STEEL		1	SIGN, POST AND MOUNT TO REMAIN PROPERTY OF WSDOT, SEE SPECIAL PROVISION "SIGN REMOVAL" FOR ADDITIONAL DETAILS.
18	R2-1	SPEED LIMIT 25	K MP 2.15	30"	36"	STEEL		1	SIGN, POST AND MOUNT TO REMAIN PROPERTY OF WSDOT, SEE SPECIAL PROVISION "SIGN REMOVAL" FOR ADDITIONAL DETAILS.
19	W3-5	SPEED LIMIT 25 ADVISORY	K MP 2.21	48"	48"	STEEL		1	SIGN, POST AND MOUNT TO REMAIN PROPERTY OF WSDOT, SEE SPECIAL PROVISION "SIGN REMOVAL" FOR ADDITIONAL DETAILS.
20	W20-901	TRAFFIC REVISION AHEAD	K MP 2.28	48"	48"	STEEL		1	SIGN, POST AND MOUNT TO REMAIN PROPERTY OF WSDOT, SEE SPECIAL PROVISION "SIGN REMOVAL" FOR ADDITIONAL DETAILS.

CONSTRUCTION NOTES:

REGIONAL ADM. C. FRANCIS

OVERHEAD SIGN AND/OR STRUCTURE. ALL SIGNS, BRACING, HARDWARE AND OTHER MISC. ATTACHED ITEMS SHALL BE DISPOSED OF BY THE CONTRACTOR. CONTRACTOR SHALL STORE AND PROTECT ALL SIGNS STATED TO REMAIN PROPERTY OF WSDOT. SEE CONTRACT SPECIAL PROVISION "SIGN REMOVAL" FOR ADDITIONAL DETAILS. ANY PRESERVED SIGN(S) LOST, STOLEN OR DAMAGED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

LEGEND

R-? SIGN REMOVAL NUMBER

? SIGN INSTALLATION NUMBER

? SIGN RELOCATION NUMBER

NEW SIGN SINGLE POST

NEW SIGN DOUBLE POST

NEW OVERHEAD SIGN

BRIDGE MOUNTED SIGN

DATE BY

EXISTING SIGN DOUBLE POST

EXISTING OVERHEAD SIGN

EXISTING EDGE OF PAVEMENT

EXISTING EDGE PAINT LINE

INCLUDE:

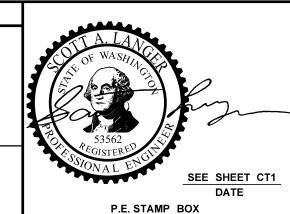
EXISTING GUARDRAIL

EXISTING DOUBLE YELLOW CENTERLINE

EXISTING BRIDGE

FILE NAME	G:\Traffic\TRAFFIC DESIGN\0	I-ACTIVE DESIGN	FILES\XL6514 -	5 Koontz Rd Bridge	Repair\Sheet\XL	_6514_PS_	SN.dgn	
TIME	3:34:42 PM					REGION NO.	STATE	FED.AID PROJ.NO.
DATE	12/15/2022					10	WASH	ER-2C02001-2
PLOTTED BY	wachtek						VVASH	
DESIGNED BY	K. WACHTER						IUMBER	
ENTERED BY	K. WACHTER					─ │ 22 X	344	
CHECKED BY	D. BURKEY/ R. SMITH					CONTR	RACT NO.	LOCATION NO.
PROJ. ENGR.	S. LANGER							

REVISION



P.E. STAMP BOX



I-5	
KOONTZ ROAD BE	RIDGE
EMERGENCY BRIDGE	REPAIR

SHEET

8

OF

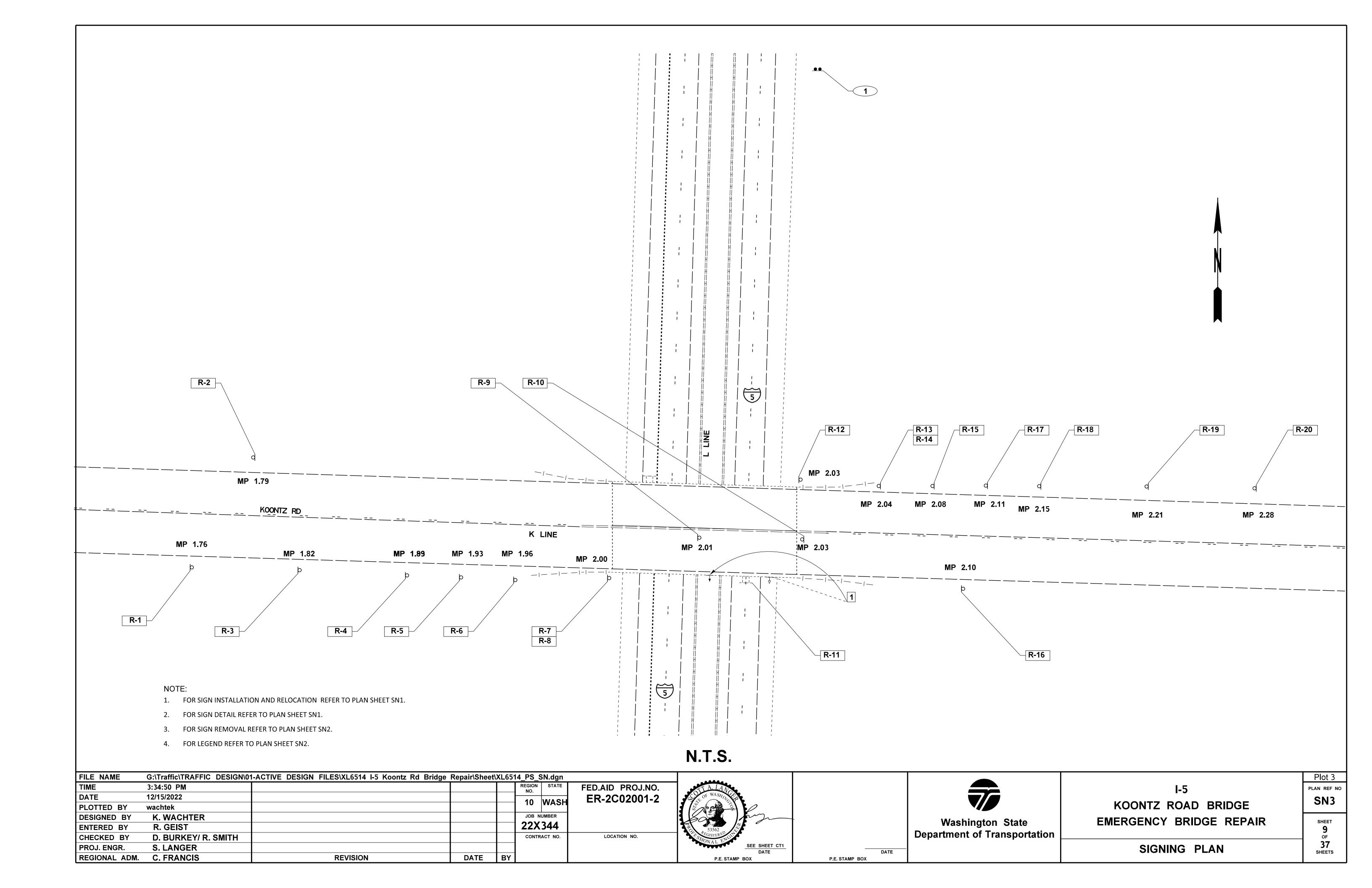
37

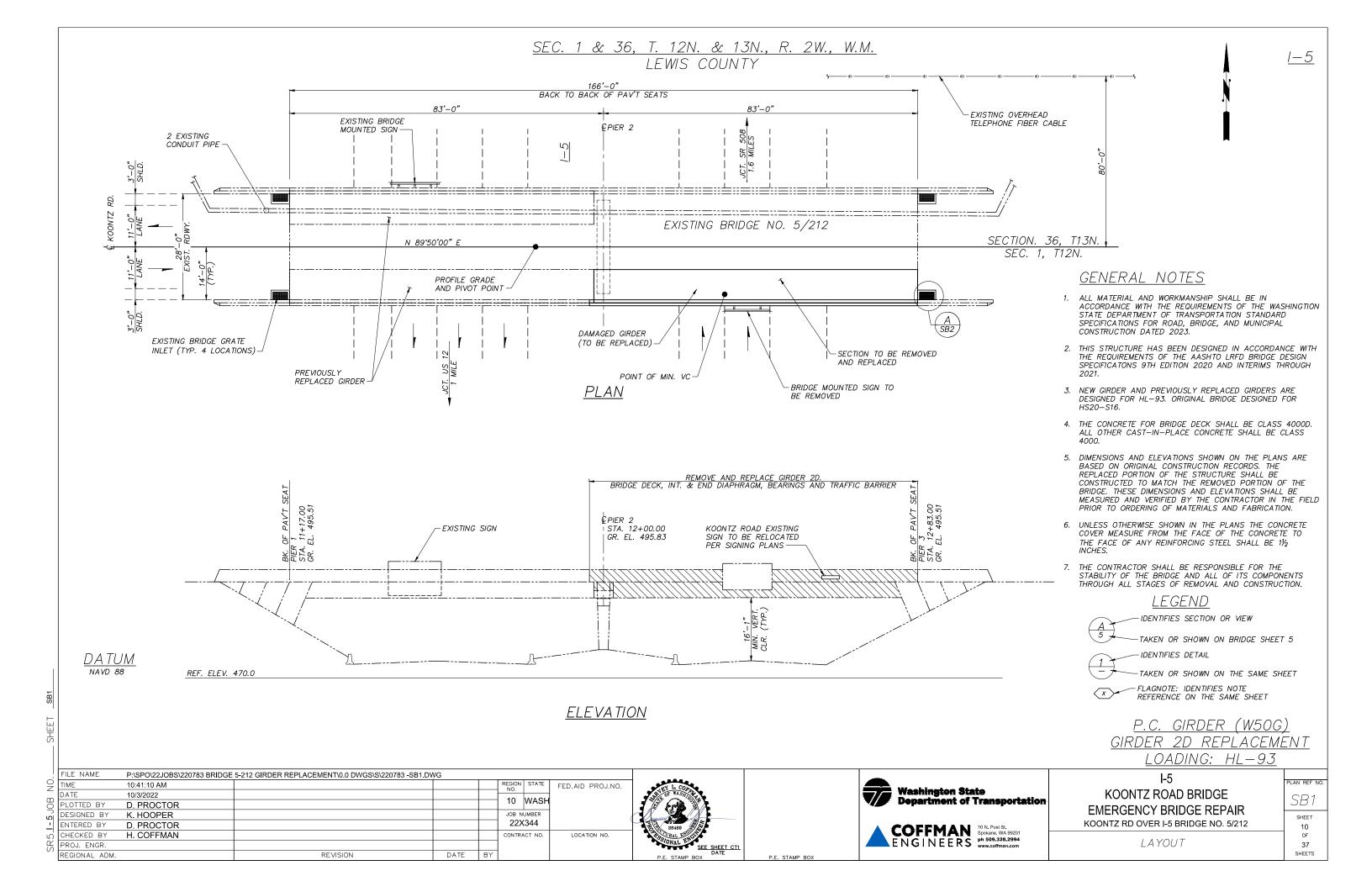
SHEETS

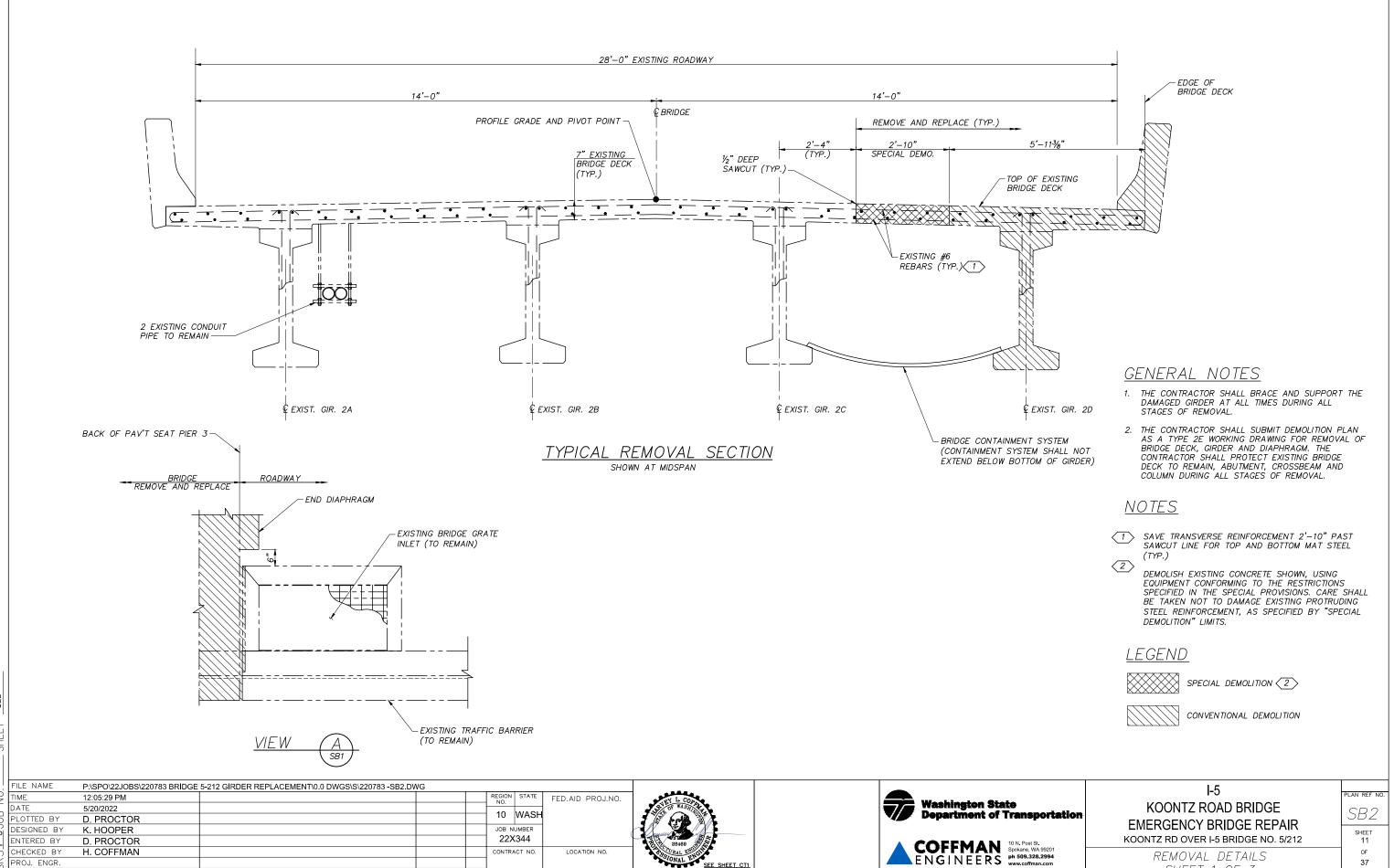
Plot 2

PLAN REF NO

SN2







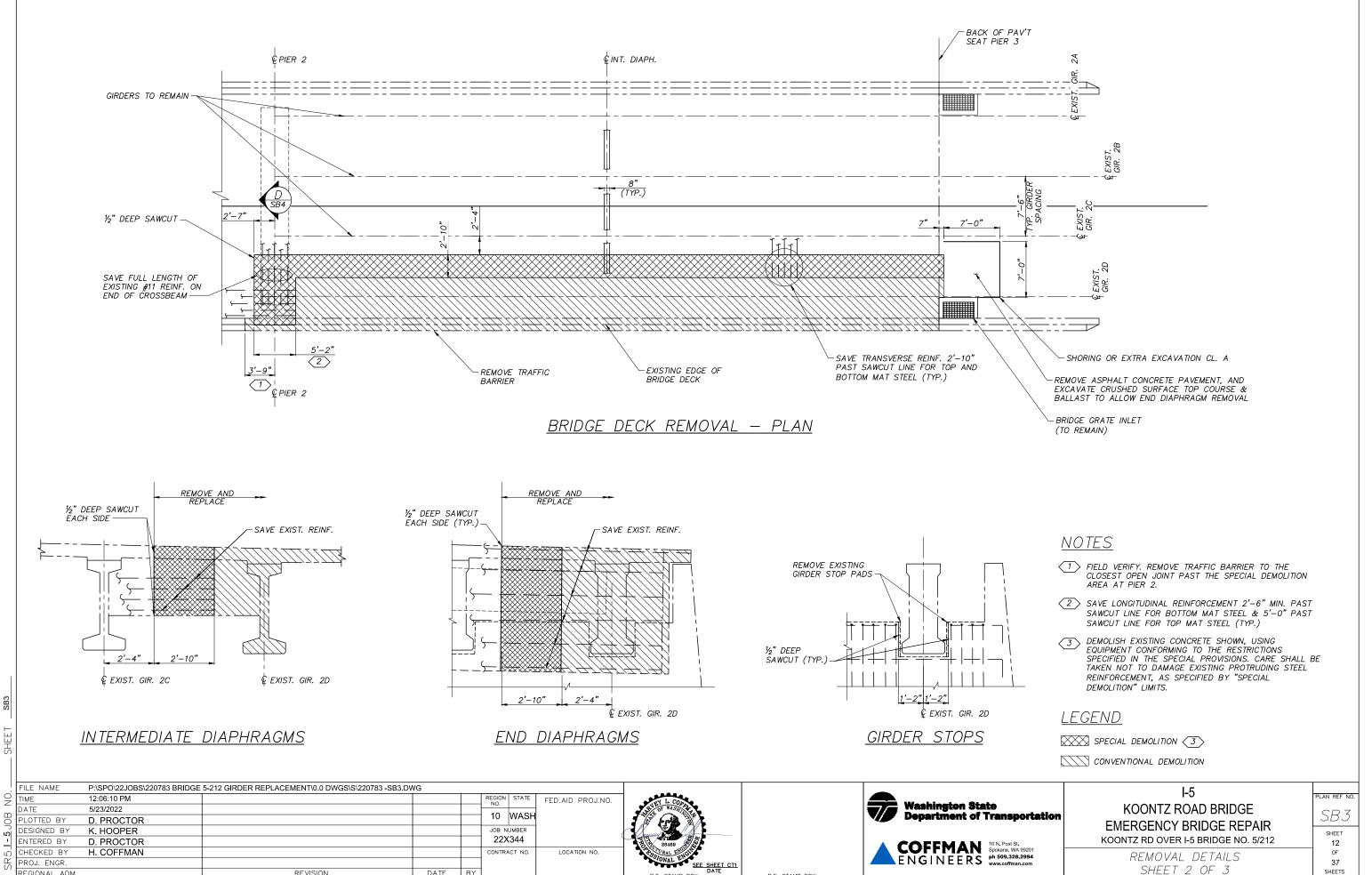
SHEET 1 OF 3

SHEETS

REGIONAL ADM.

REVISION

DATE

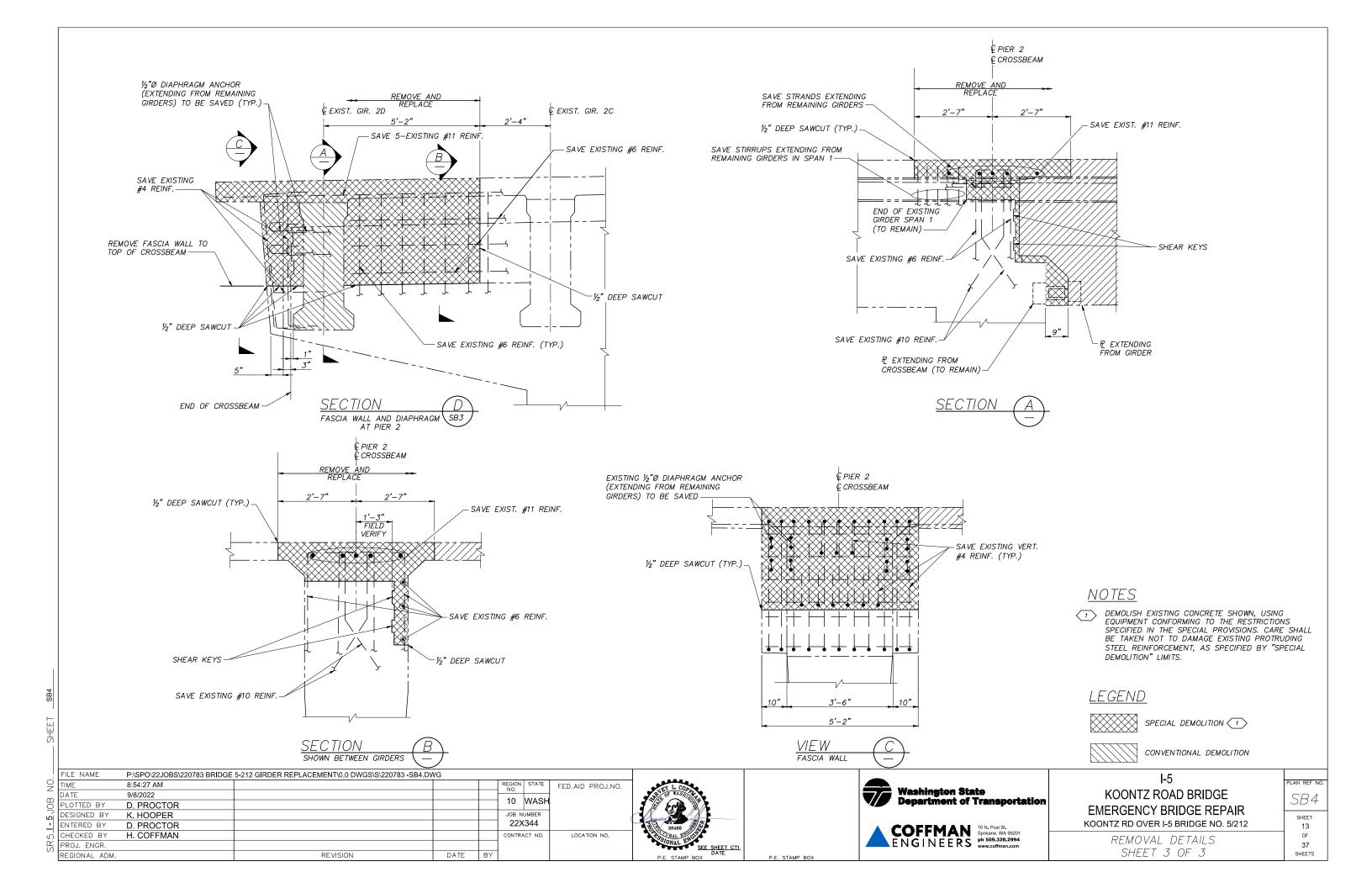


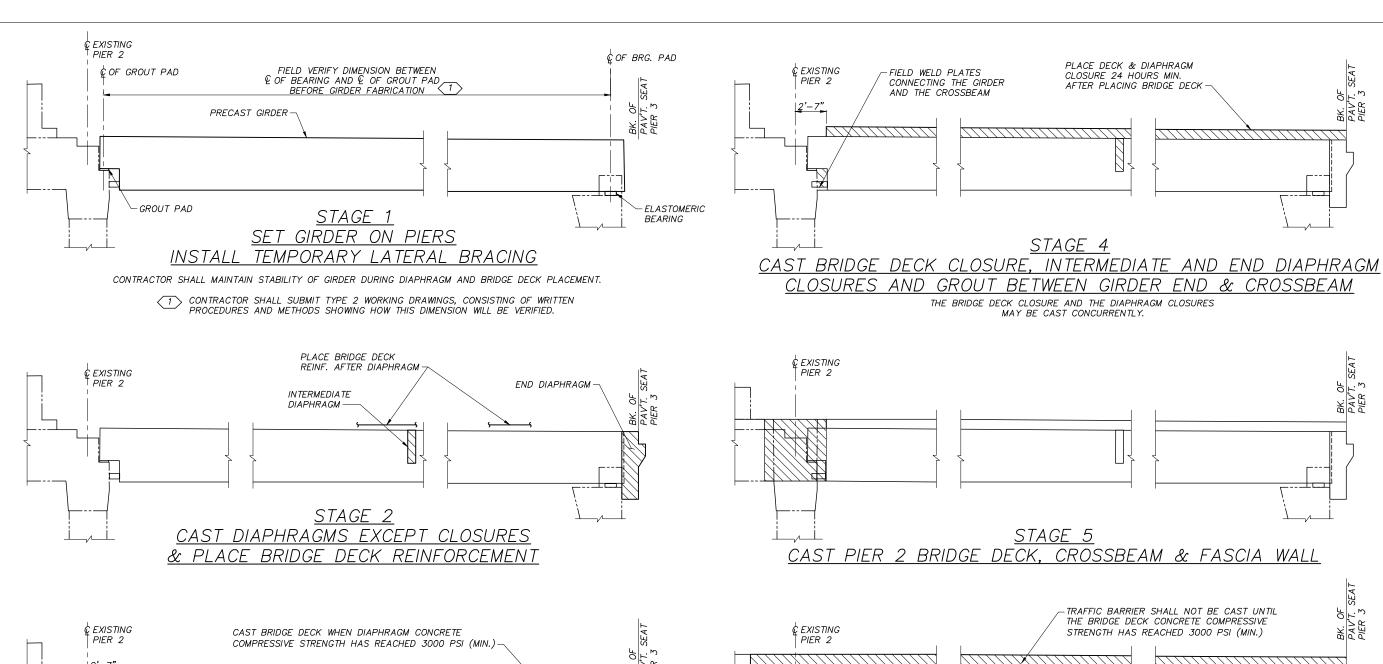
SHEETS

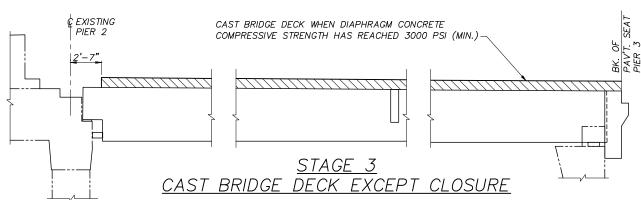
REGIONAL ADM.

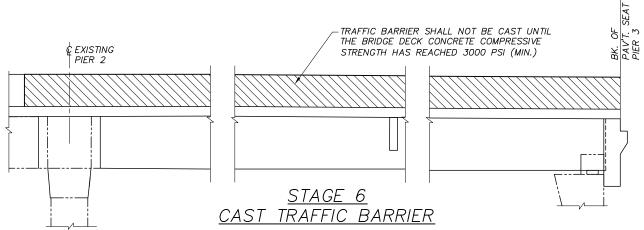
REVISION

DATE









<u>STAGE 7</u> <u>ROADWAY WORK</u>

PLACE CONTROLLED DENSITY FILL, CRUSHED SURFACING BASE COURSE AND HMA PAVEMENT IN THE BRIDGE APPROACH AREA THAT WAS EXCAVATED AND REMOVED.

	FILE NAME	P:\SPO\22JOBS\220783 BRIDGE	5-212 GIRDER REPLACEMENT\0.0 DWGS\S\220783 -SB5.DW0	3				
9	TIME	4:51:29 PM				REGION NO.	STATE	FED.AID PROJ.NO.
~	DATE	5/23/2022					14/4 011	
	PLOTTED BY	D. PROCTOR				10	WASH	
2	DESIGNED BY	K. HOOPER					UMBER	
	ENTERED BY	D. PROCTOR				22X	(344	
	CHECKED BY	H. COFFMAN				CONTRA	ACT NO.	LOCATION NO.
S	PROJ. ENGR.							
	REGIONAL ADM.		REVISION	DATE	BY			



P.E. STAMP BOX





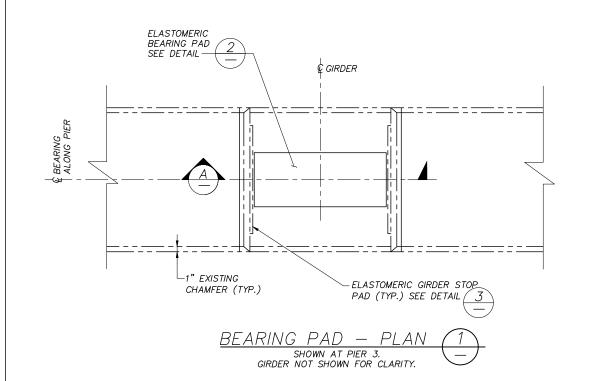
I-5	
KOONTZ ROAD BRIDGE	
EMERGENCY BRIDGE REPAIR	
KOONTZ RD OVER I-5 BRIDGE NO. 5/212	

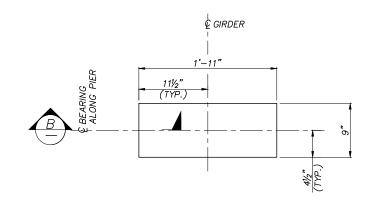
SUPERSTRUCTURE CONSTRUCTION SEQUENCE

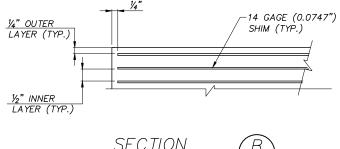
SB5

SHEET
14

OF
37
SHEETS



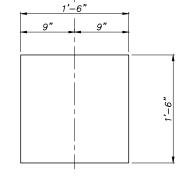




SECTION

& BEARING ALONG PIER © ELASTOMERIC GIRDER STOP PAD 9"

ELASTOMERIC BEARING PAD DETAIL LAMINATED ELASTOMERIC BEARING PAD AT PIER 3 ONLY (3 SHIMS).



ELASTOMERIC GIRDER STOP PAD DETAIL SHEAR MODULUS = 165 PSI

€ GIRDER
LEVEL
½" RECESS

BEARING DESIGN TABLE AASHTO METHOD B DESIGN SERVICE - 1 LIMIT STATE DEAD LOAD (DL) REACTION 76 KIPS LIVE LOAD REACTION (W/O IMPACT) 45 KIPS UNLOADED HEIGHT 1.72 IN. SHEAR MODULUS 165 KSI

BEARING PAD ELEVATION

P.E. STAMP BOX

NOTES

1. THE ELASTOMERIC STOP PADS SHALL BE BONDED TO THE EXISTING GIRDER STOPS WITH AN ACCEPTED ADHESIVE.

	1								
	FILE NAME	P:\SPO\22JOBS\220783 BRIDGE	5-212 GIRDER REPLACEMENT\0.0 DWGS\S\220783 -SB6.DW	'G					Γ
9	TIME	8:18:30 AM				REGION NO.	STATE	FED.AID PROJ.NO.	l
	DATE	10/5/2022					W/A CLI		
8	PLOTTED BY	D. PROCTOR				10	WASH		
_ 2	DESIGNED BY	K. HOOPER					UMBER	1	ł
i	ENTERED BY	D. PROCTOR				22×	(344	1	r
	CHECKED BY	H. COFFMAN				CONTRA	CT NO.	LOCATION NO.	
K	PROJ. ENGR.							ļ	
0,	REGIONAL ADM.		REVISION	DATE	BY			· · · · · · · · · · · · · · · · · · ·	

<u>SECTION</u>

GIRDER

1/4" GAP BETWEEN
ELASTOMERIC GIRDER STOP

PAD AND GIRDER (TYP.)

- EPOXY GROUT PER STD SPEC. 9-26.3

ELASTOMERIC BEARING PAD

1/4" ELASTOMERIC GIRDER STOP PAD (TYP.)

½" FROM FACE OF GIRDER
TO FACE OF EXISTING GIRDER (TYP.)

EXISTING GIRDER STOP TO REMAIN (TYP.) —



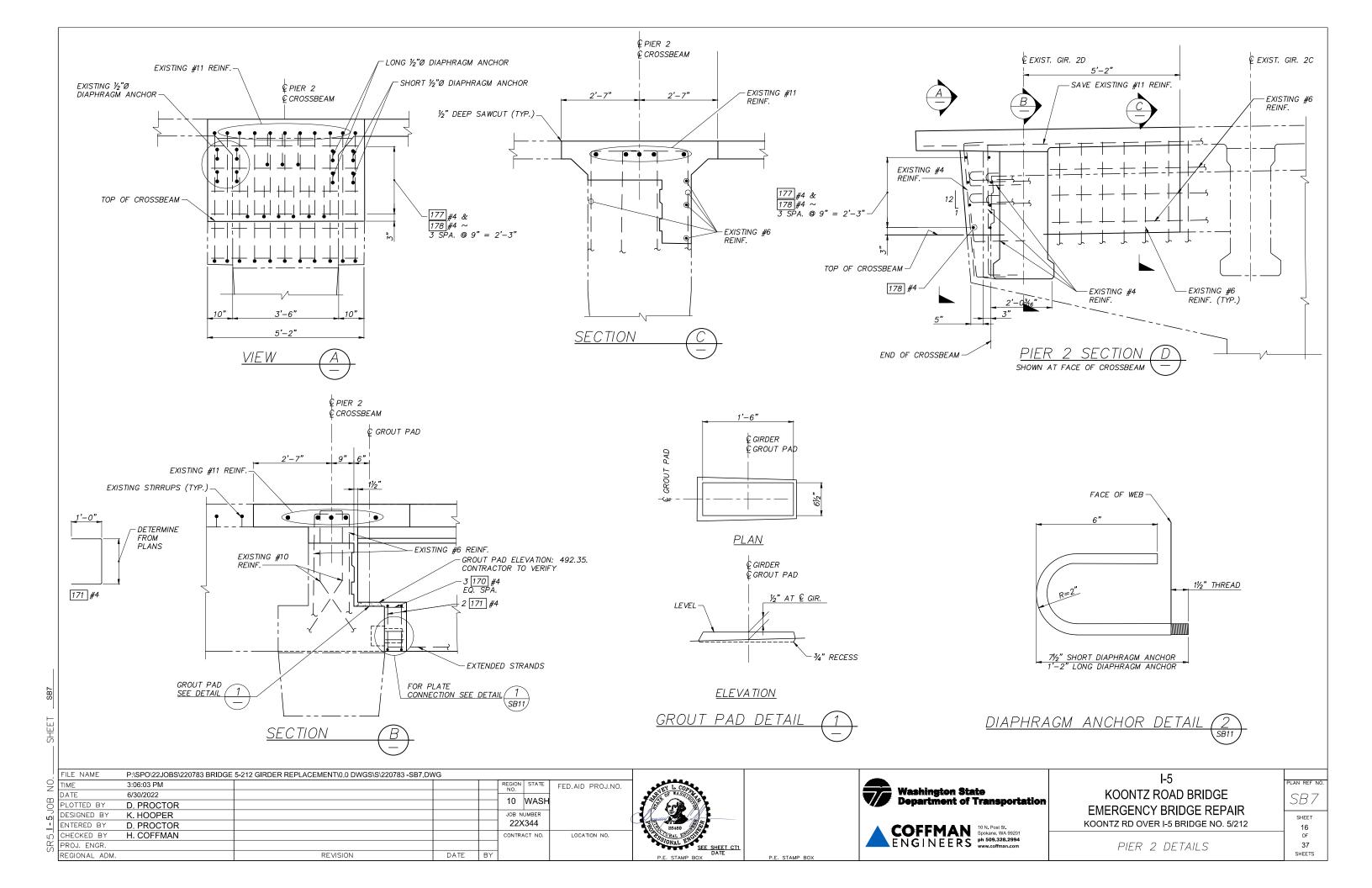


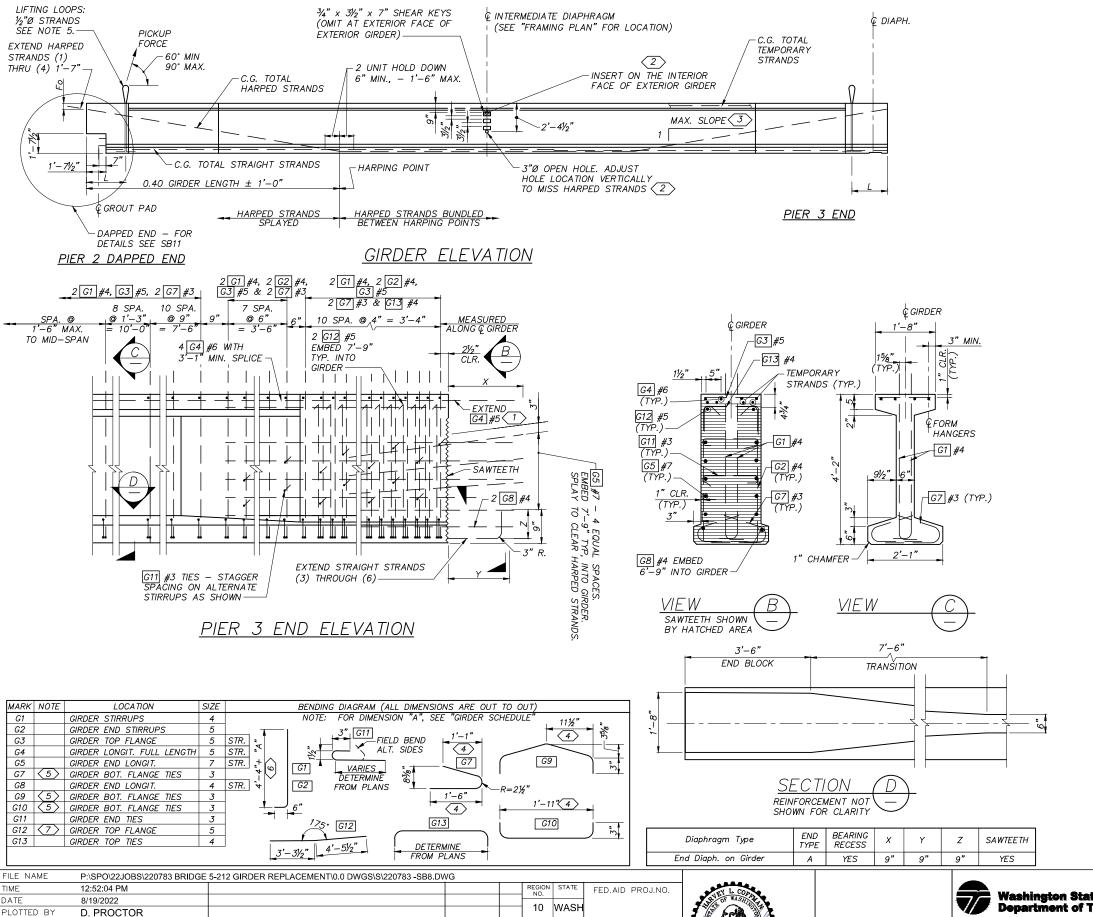


I-5	
KOONTZ ROAD BRIDGE	
EMERGENCY BRIDGE REPAIR	
KOONTZ RD OVER I-5 BRIDGE NO. 5/212	

BEARING DETAILS PIER 3

SB6 SHEET 15 of 37 SHEETS





22X344

CONTRACT NO

DATE

BY

LOCATION NO

DESIGNED BY

ENTERED BY

CHECKED BY

PROJ. ENGR.

REGIONAL ADM

K. HOOPER

D. PROCTOR

H. COFFMAN

REVISION

<u>GIRDER NOTES</u>

- PLAN LENGTH SHALL BE INCREASED AS NECESSARY TO COMPENSATE FOR SHORTENING DUE TO PRESTRESS AND SHRINKAGE.
- 2. ALL PRETENSIONED AND TEMPORARY STRANDS SHALL BE 0.6"Ø LOW RELAXATION STRANDS (AASHTO M203 GRADE 270.)
- 3. CUT ALL STRANDS FLUSH WITH THE GIRDER ENDS AND PAINT WITH AN APPROVED EPOXY RESIN, EXCEPT FOR EXTENDED STRANDS AS SHOWN.
- 4. THE TOP SURFACE OF THE GIRDER FLANGE SHALL BE ROUGHENED IN ACCORDANCE WITH SECTION 6-02.3(25)H OF THE STANDARD SPECIFICATIONS.
- 5. LIFTING EMBEDMENTS WHALL BE INSTALLED IN ACCORDANCE WITH SECTION 6-02.3(25)L OF THE STANDARD SPECIFICATIONS.
- 6. CAUTION SHALL BE EXERCISED IN HANDLING AND PLACING GIRDERS. ALL GIRDERS SHALL BE CHECKED BY THE CONTRACTOR TO ENSURE THAT THEY ARE BRACED ADEQUATELY TO PREVENT TIPPING AND TO CONTROL LATERAL BENDING DURING SHIPPING. ONCE ERECTED, ALL GIRDERS SHALL BE BRACED LATERALLY TO PREVENT TIPPING UNTIL THE DIAPHRAGMS ARE CAST AND CURED.
- 7. FORMS FOR BEARING PAD RECESSES SHALL BE CONSTRUCTED AND FASTENED IN SUCH A MANNER AS TO NOT CAUSE DAMAGE TO THE GIRDER DURING THE STRAND RELEASE OPERATION.
- 8. TEMPORARY TOP STRANDS SHALL BE EITHER PRETENSIONED OR POST—TENSIONED IN ACCORDANCE WITH SECTION 6-02.3(25)L OF THE STANDARD SPECIFICATIONS AND THE GIRDER DETAILS SHEETS. THE LIFTING LOCATION "L" AND CONCRETE RELEASE STRENGTH "F'CI" SHOWN IN THE GIRDER SCHEDULE ASSUME THAT THE TEMPORARY TOP STRANDS ARE PRETENSIONED. ALTERNATIVELY, POST—TENSIONED TEMPORARY TOP STRANDS MAY BE USED IF THE LIFTING POINTS IN THE GIRDER SCHEDULE ARE MAINTAINED AND THE STRANDS ARE STRESSED PRIOR TO LIFTING THE GIRDER FROM THE FORM.

NOTES:

- 1) FIELD BENDING REQUIRED TO OBTAIN 11/2" CONCRETE COVER AT PAVEMENT SEAT.
- OMIT HOLES AND PLACE INSERTS ON THE INTERIOR FACE OF EXTERIOR GIRDERS. PLACE HOLES AND INSERTS PARALLEL TO SKEW. INSERTS SHALL BE 1"Ø MEADOWBURKE MX-3 HI-TENSILE, 1"Ø MEADOWBURKE FX-19 FERRULE INSERT, 1"Ø x 5½" WILLIAMS F22 OPEN FERRULE INSERT, 1"Ø x 45%" DAYTON-SUPERIOR F-62 FLARED THIN SLAB FERRULE INSERT OR APPROVED EQUAL.
- 3 MAXIMUM SLOPE FOR STRANDS: 8: 1 FOR EACH 0.6"Ø STRAND
- 4 VARIES FOR SKEWED ENDS.
- 5 PAIRS OF [67] BARS, OR [69] AND [610] BARS, MAY BE USED INTERCHANGEABLY AS BOTTOM FLANGE TIES.
- 6 SHALL BE CHECKED FOR EFFECT OF VERITICAL CURVE.
- 7 BEND AS NECESSARY TO MAINTAIN CONCRETE COVER.



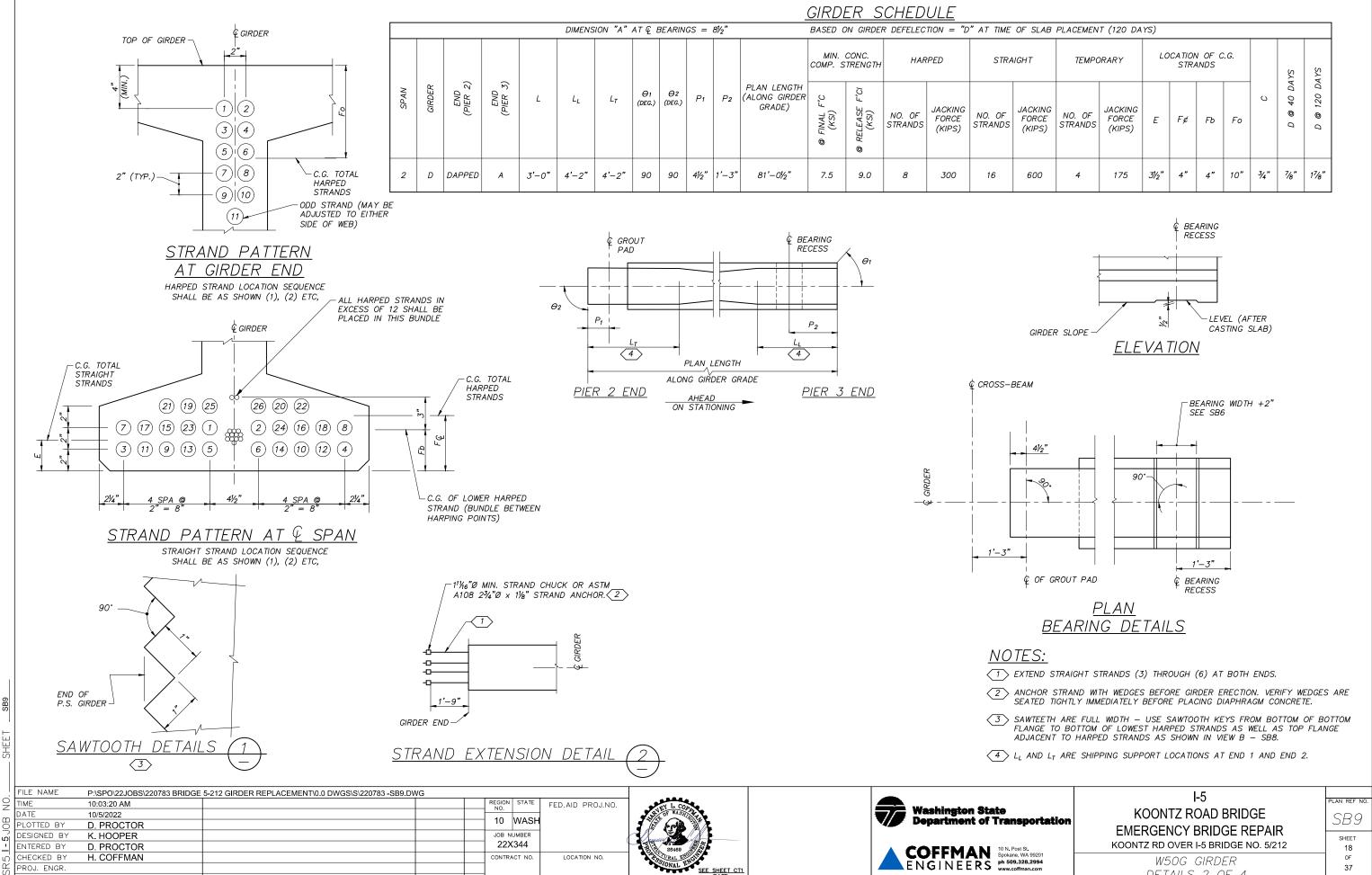
P.E. STAMP BOX

I-5 KOONTZ ROAD BRIDGE EMERGENCY BRIDGE REPAIR KOONTZ RD OVER I-5 BRIDGE NO. 5/212

> W50G GIRDER DETAILS 1 OF 4

SB8

SHEET
17
OF
37
SHEETS



DETAILS 2 OF 4

SHEETS

PROJ. ENGR.

REGIONAL ADM.

REVISION

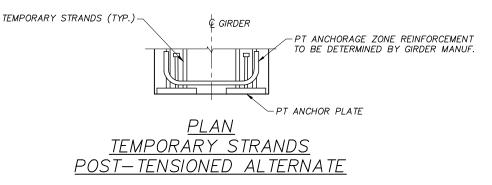
DATE

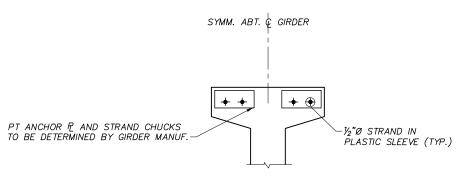
PLAN PRETENSIONED TEMPORARY TOP STRANDS

POST-TENSIONED TEMPORARY TOP STRANDS SIMILAR, EXCEPT 10'-0" LENGTH OF BONDING OCCURS AT ONE END ONLY. THE OPPOSING END IS ANCHORED WITH PLATES AND STRAND CHUCKS.

TEMPORARY STRAND CUTTING SEQUENCE

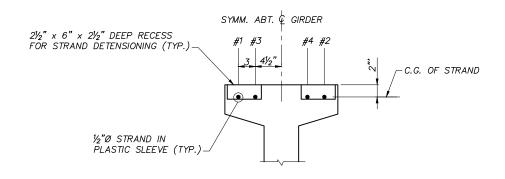
- 1. ERECT AND BRACE GIRDERS.
- 2. JUST PRIOR TO CUTTING THE TEMPORARY STRANDS, REMOVE EXPANDED POLYSTYRENE IN BLOCKOUTS IN TOP FLANGE OF GIRDERS. ONCE THE EXPANDED POLYSTYRENE HAS BEEN REMOVED FROM THE STRAND DETENSIONING BLOCKOUT, PREVENT MOISTURE FROM ENTERING THE BLOCKOUT UNTIL THE TEMPORARY TOP STRAND IS CUT AND THE BLOCKOUT FILLED WITH GROUT.
- 3. CUT STRANDS IN BLOCKOUTS. STRANDS MAY BE CUT BY USING A CUTTING TORCH AND MOVING THE FLAME BACK AND FORTH OVER THE LENGTH OF EXPOSED STRAND TO LET INDIVIDUAL WIRES BREAK ONE AT A TIME TO LESSEN THE SHOCK TO THE GIRDER. STRANDS SHALL BE RELEASED IN A SYMMETRICAL MANNER ABOUT THE GIRDER CENTERLINE STARTING WITH THOSE NEAREST THE CENTERLINE AND WORKING OUTWARDS. FOR POST-TENSIONED TEMPORARY TOP STRANDS, ACTIVELY RESTRAIN THE STRAND CHUCKS AT THE GIRDER ENDS
- 4. WITHIN 24 HOURS OF CUTTING THE TEMPORARY STRANDS, FILL THE BLOCKOUTS WITH A GROUT CONFORMING TO STD. SPEC. 9-20.3(2). REMOVE ALL MOISTURE IN BLOCKOUTS PRIOR TO FILLING THEM WITH GROUT.

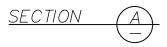




END VIEW TEMPORARY STRAND POST-TENSIONED ALTERNATE

ADJUST G4 BARS TO CLEAR THE STEEL PLATE





FILE NAME P:\SPO\22JOBS\220783 BRIDGE 5-212 GIRDER REPLACEMENT\0.0 DWGS\S\220783 - SB10.DWG TIME 3:31:22 PM FED.AID PROJ.NO. DATE 8/17/2022 10 WASH PLOTTED BY D. PROCTOR DESIGNED BY K. HOOPER JOB NUMBER 22X344 ENTERED BY D. PROCTOR H. COFFMAN CONTRACT NO. CHECKED BY LOCATION NO. PROJ. ENGR. REGIONAL ADM. REVISION DATE BY





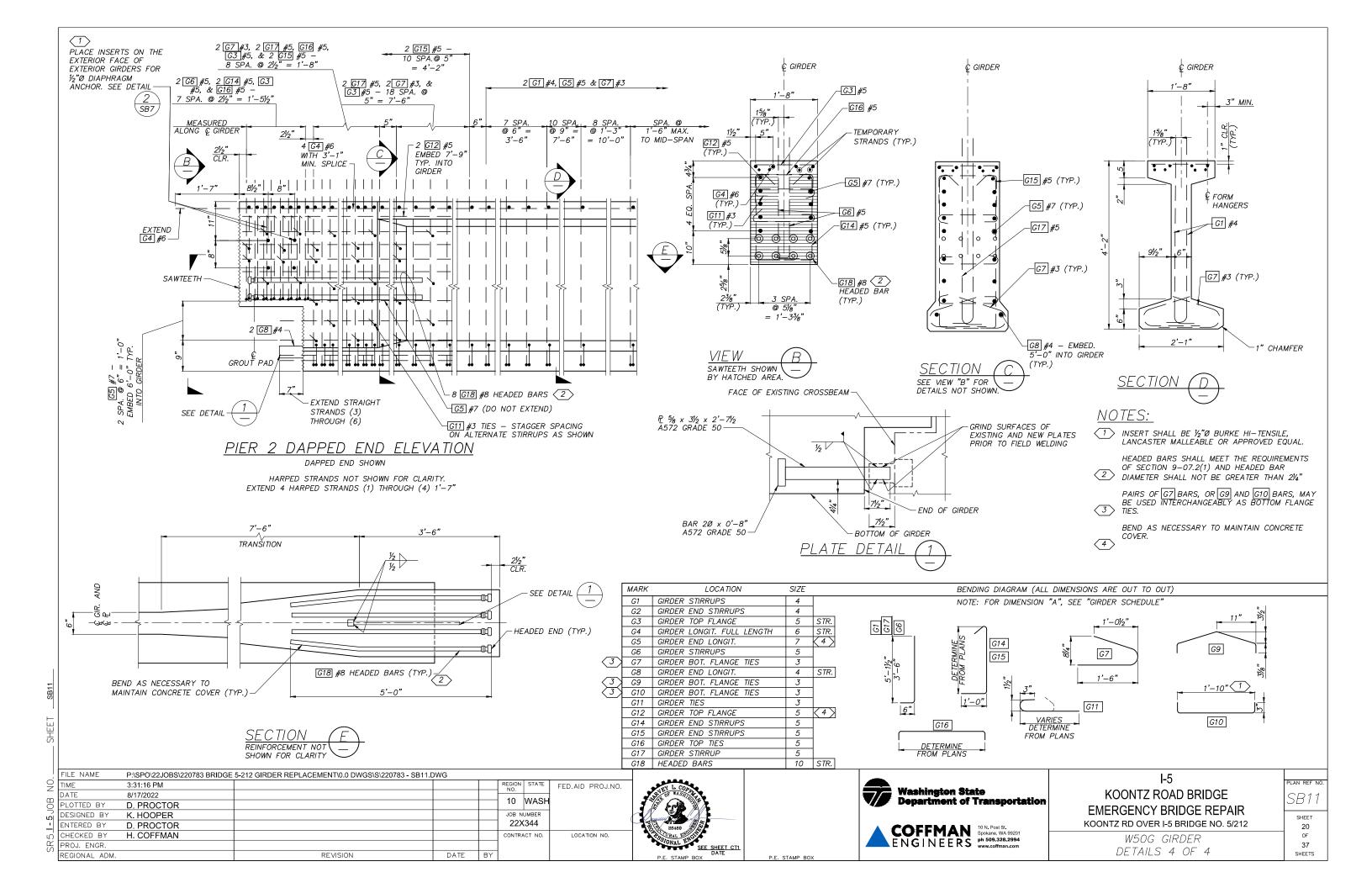


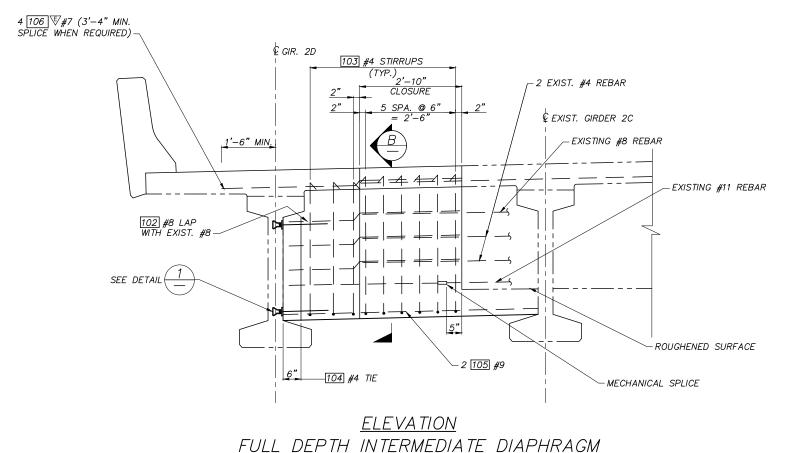
I-5
KOONTZ ROAD BRIDGE
EMERGENCY BRIDGE REPAIR
KOONTZ RD OVER I-5 BRIDGE NO. 5/212

W50G GIRDER DETAILS 3 OF 4 PLAN REF NO. SB10 SHEET 19 OF 37

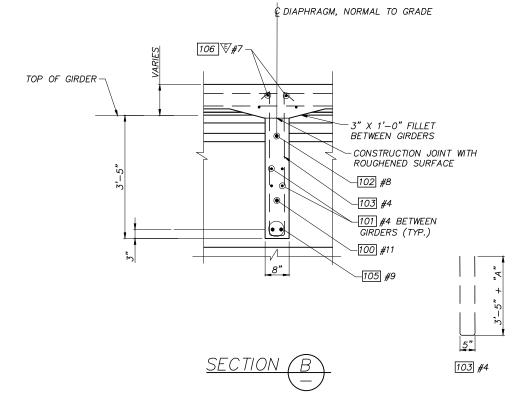
SHEETS

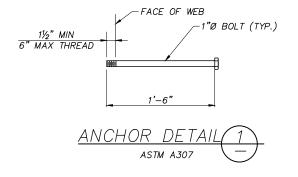
P.E. STAMP BOX





DIMENSIONS ARE ALONG DIAPHRAGM





NOTES:

- 1. GIRDERS SHALL BE HELD RIGIDLY IN PLACE WHEN DIAPHRAGMS ARE PLACED.
- CUT/RELEASE GIRDER TEMPORARY STRANDS BEFORE
 CASTING DECK OR DIAPHRAGM. SEE TEMPORARY STRAND
 CUTTING SEQUENCE.
- 3. FOR CONCRETE PLACEMENT PROCEDURE SEE "SUPER STRUCTURE CONSTRUCTION SEQUENCE" SHEET.

	FILE NAME	P:\SPO\22JOBS\220783 BRIDGE	5-212 GIRDER REPLACEMENT\0.0 DWGS\S\220783 -S12.DV	/G				
9	TIME	3:12:52 PM				REGION NO.	STATE	FED.AID PROJ.NO.
m	DATE	6/20/2022					MA CLI	
8	PLOTTED BY	D. PROCTOR				10	WASH	
□	DESIGNED BY	K. HOOPER					UMBER	
	ENTERED BY	D. PROCTOR				22X	(344	
5	CHECKED BY	H. COFFMAN				CONTRA	CT NO.	LOCATION NO.
SS	PROJ. ENGR.							
	REGIONAL ADM.		REVISION	DATE	BY			



P.E. STAMP BOX

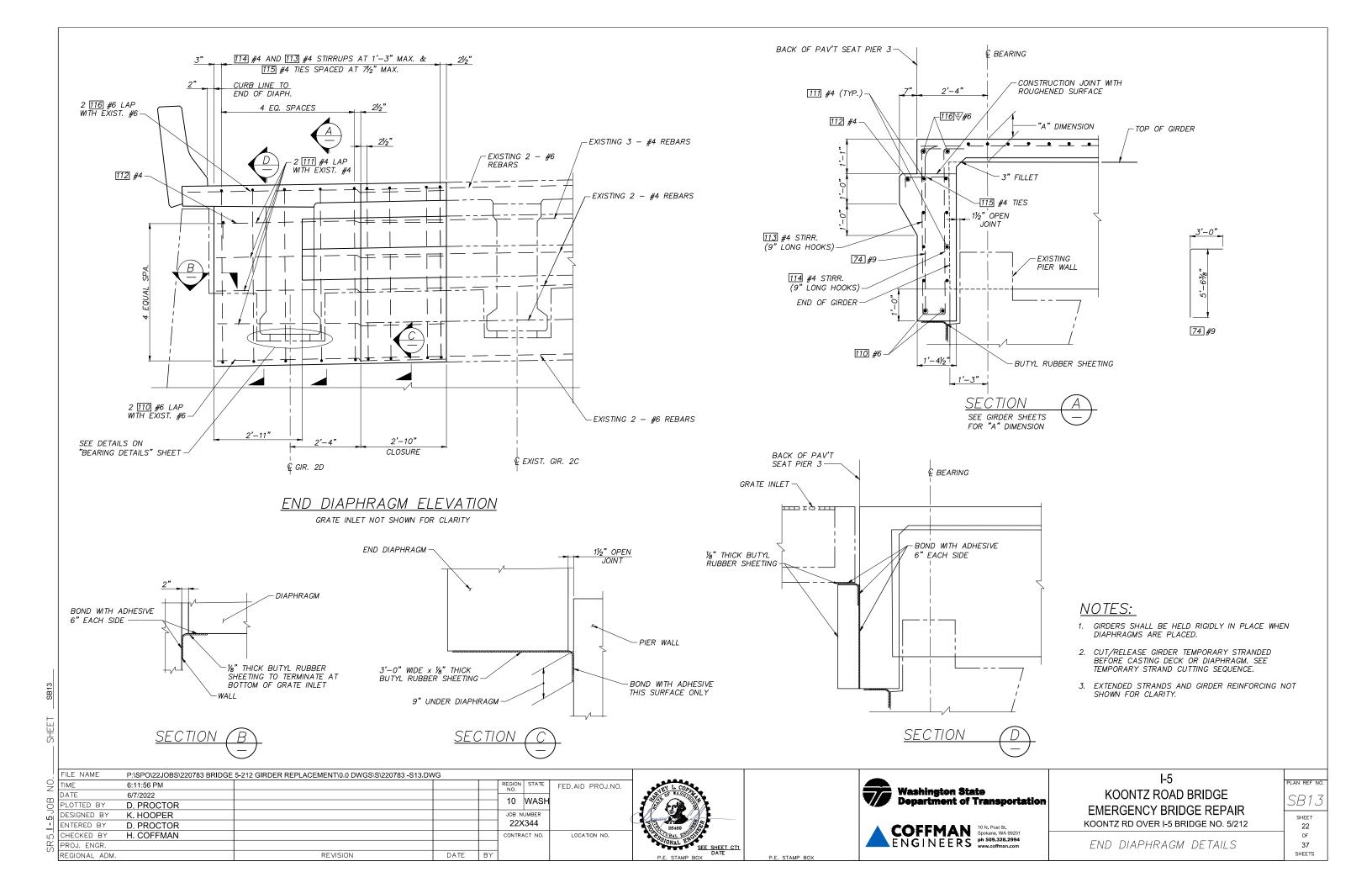


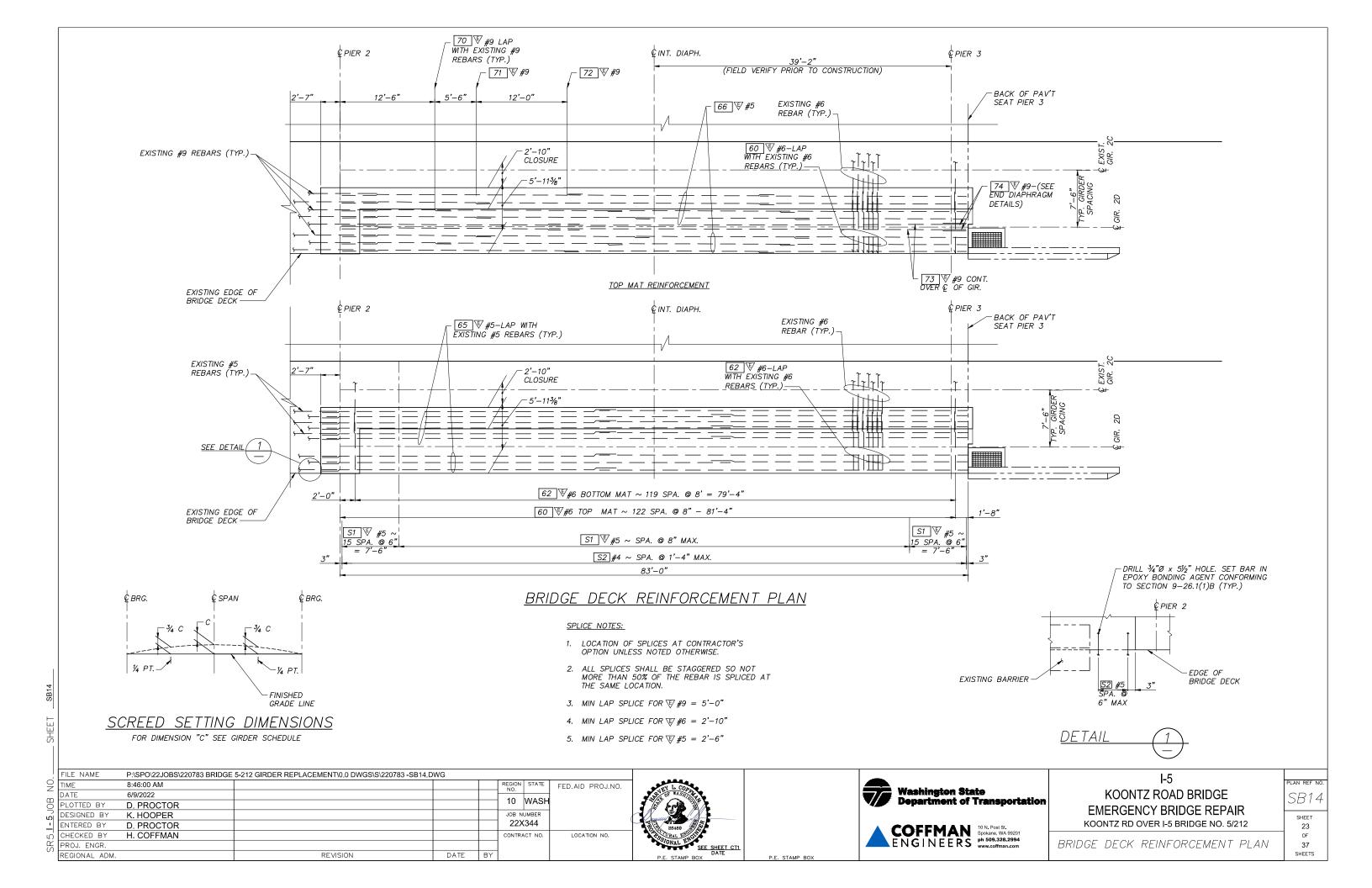


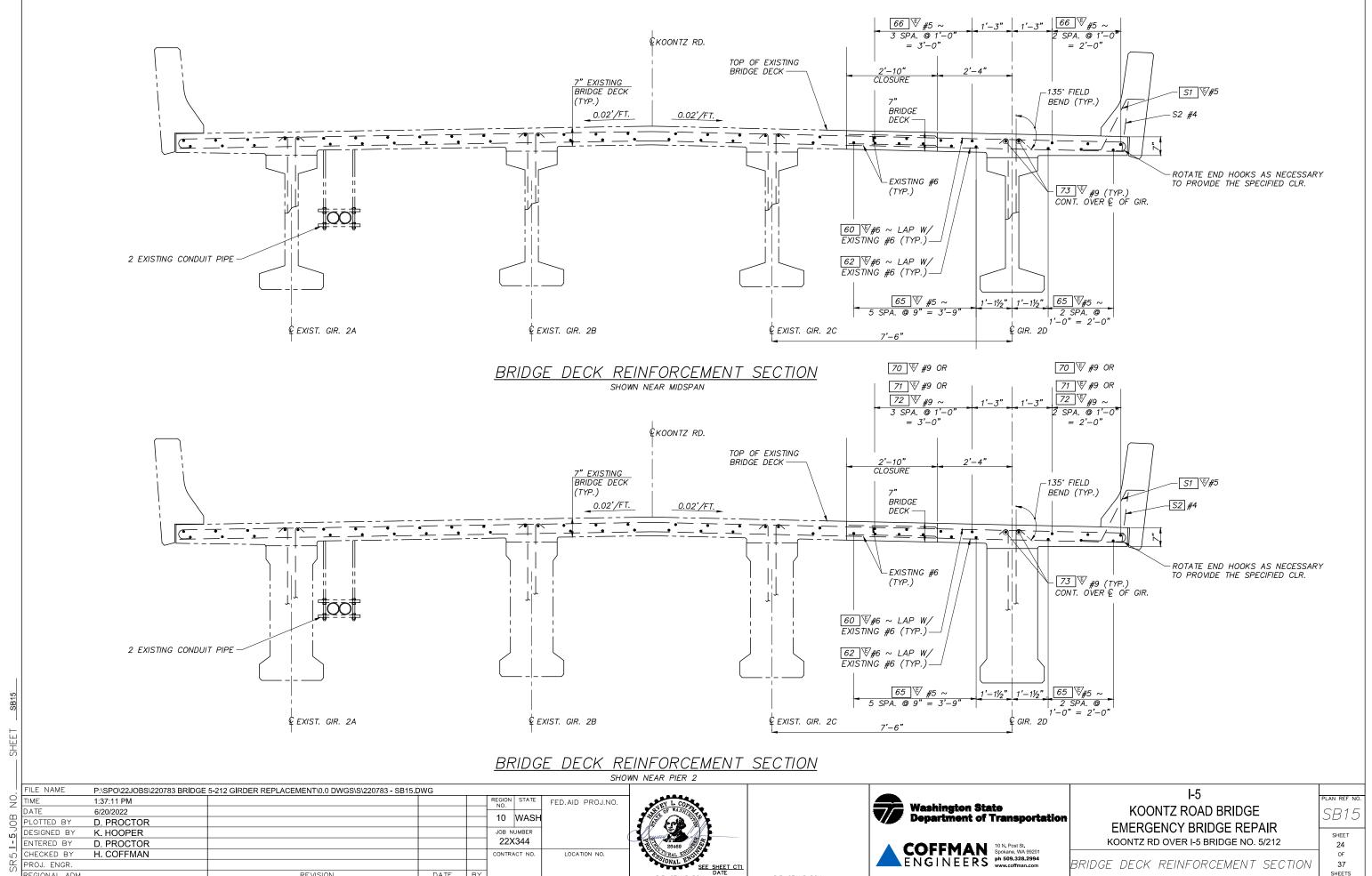
I-5
KOONTZ ROAD BRIDGE
EMERGENCY BRIDGE REPAIR
KOONTZ RD OVER L5 BRIDGE NO. 5/212

INTERMEDIATE DIAPHRAGM DETAILS

SHEET
21
OF
37
SHEETS



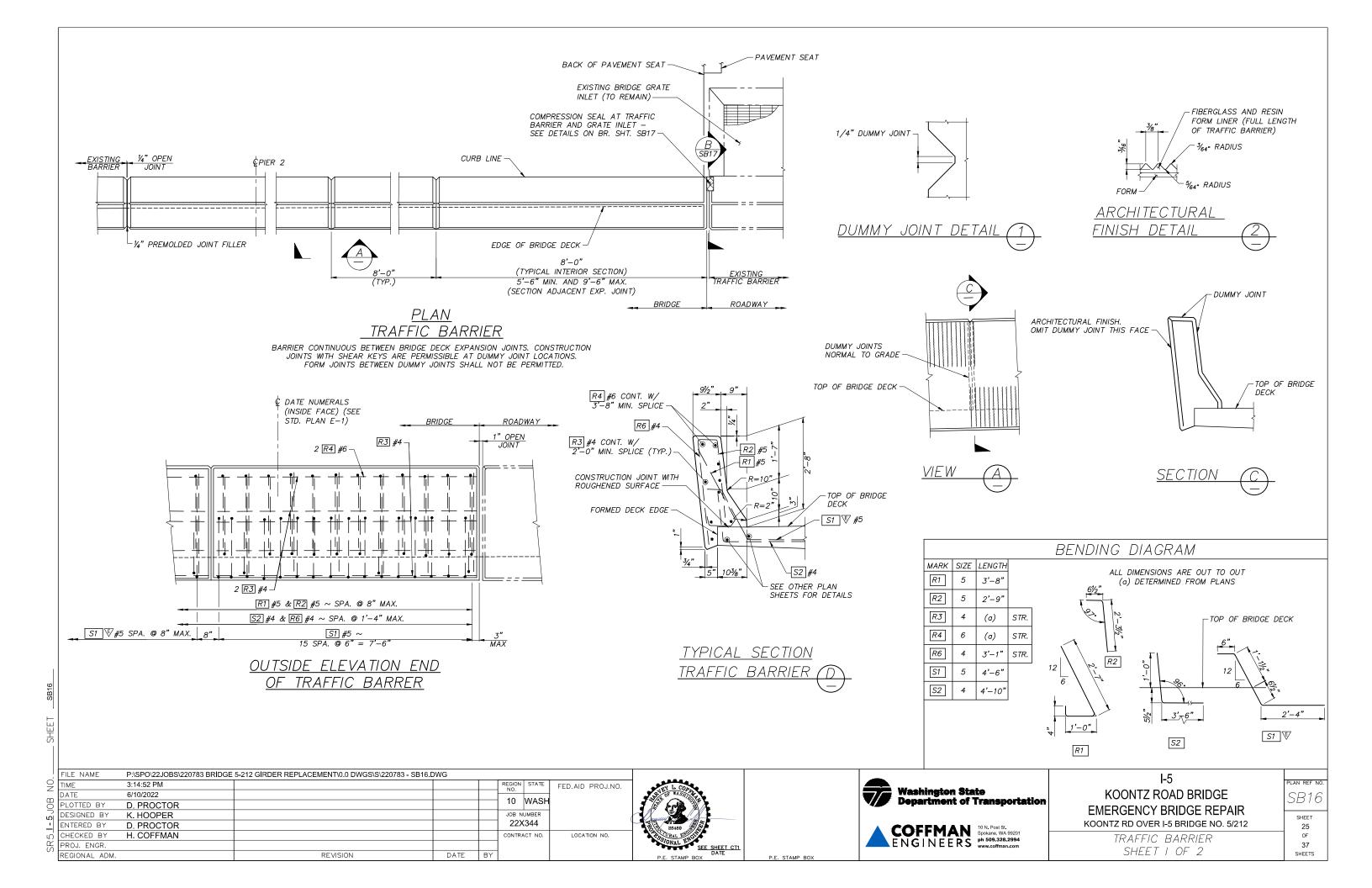


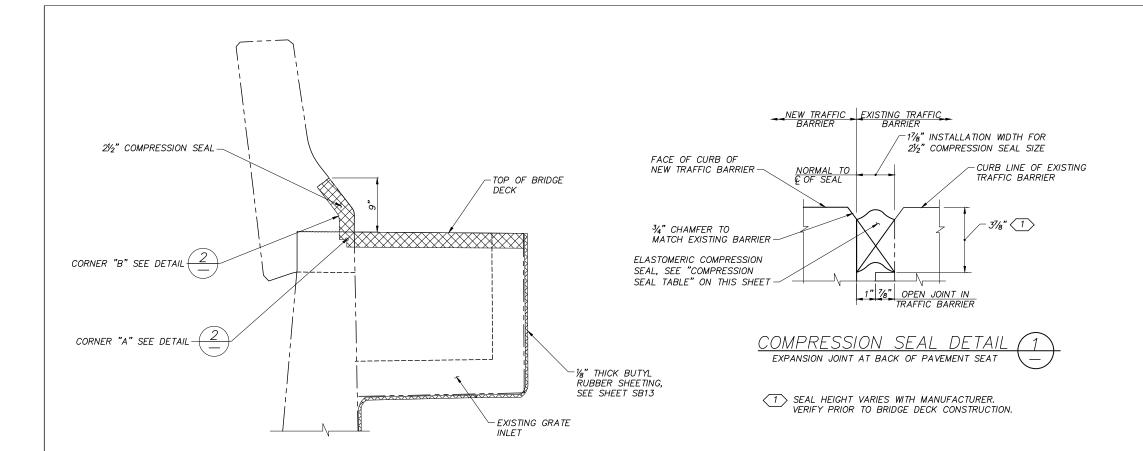


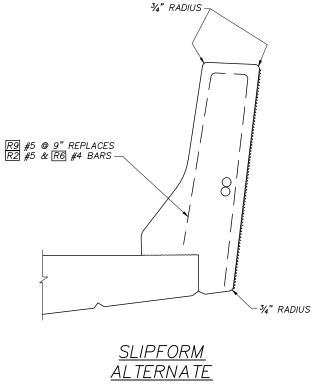
REGIONAL ADM.

REVISION

DATE



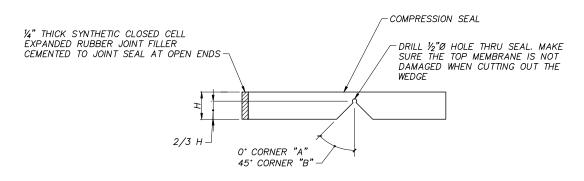




SEE SECTION D/SB16 FOR ADDITIONAL DETAILS.

THE CONTRACTOR IS ADVISED THAT THE SLIPFORM CONSTRUCTION METHOD IS A PATENTED PROPRIETARY PROCESS FOR BARRIER WITH A ARCHITECTURAL FINISH.





SEAL	CUTTING	DETAIL	(2)

D.S. E	BROWN	WATSON BOWMAN ACME				
SEAL	WIDTH	SEAL	WIDTH			
CV-2502	2 1/2	WA-250	2 ½			

TESTING SHALL BE PER ASTM D 2628 PRIOR TO USE.

COMPRESSION SEAL TABLE

P.E. STAMP BOX

!	FILE NAME	P:\SPO\22JOBS\220783 BRIDGE	5-212 GIRDER REPLACEMENT\0.0 DWGS\S\220783 - SB17.[OWG				
9	TIME	3:16:47 PM				REGION NO.	STATE	FED.AID PROJ.NO.
m	DATE	6/10/2022					\A/A CLI	
8	PLOTTED BY	D. PROCTOR				10	WASH	
∽	DESIGNED BY	K. HOOPER					UMBER	
1	ENTERED BY	D. PROCTOR				22×	(344	
	CHECKED BY	H. COFFMAN				CONTRA	ACT NO.	LOCATION NO.
<u>K</u>	PROJ. ENGR.							
0,	REGIONAL ADM.		REVISION	DATE	ΒY			





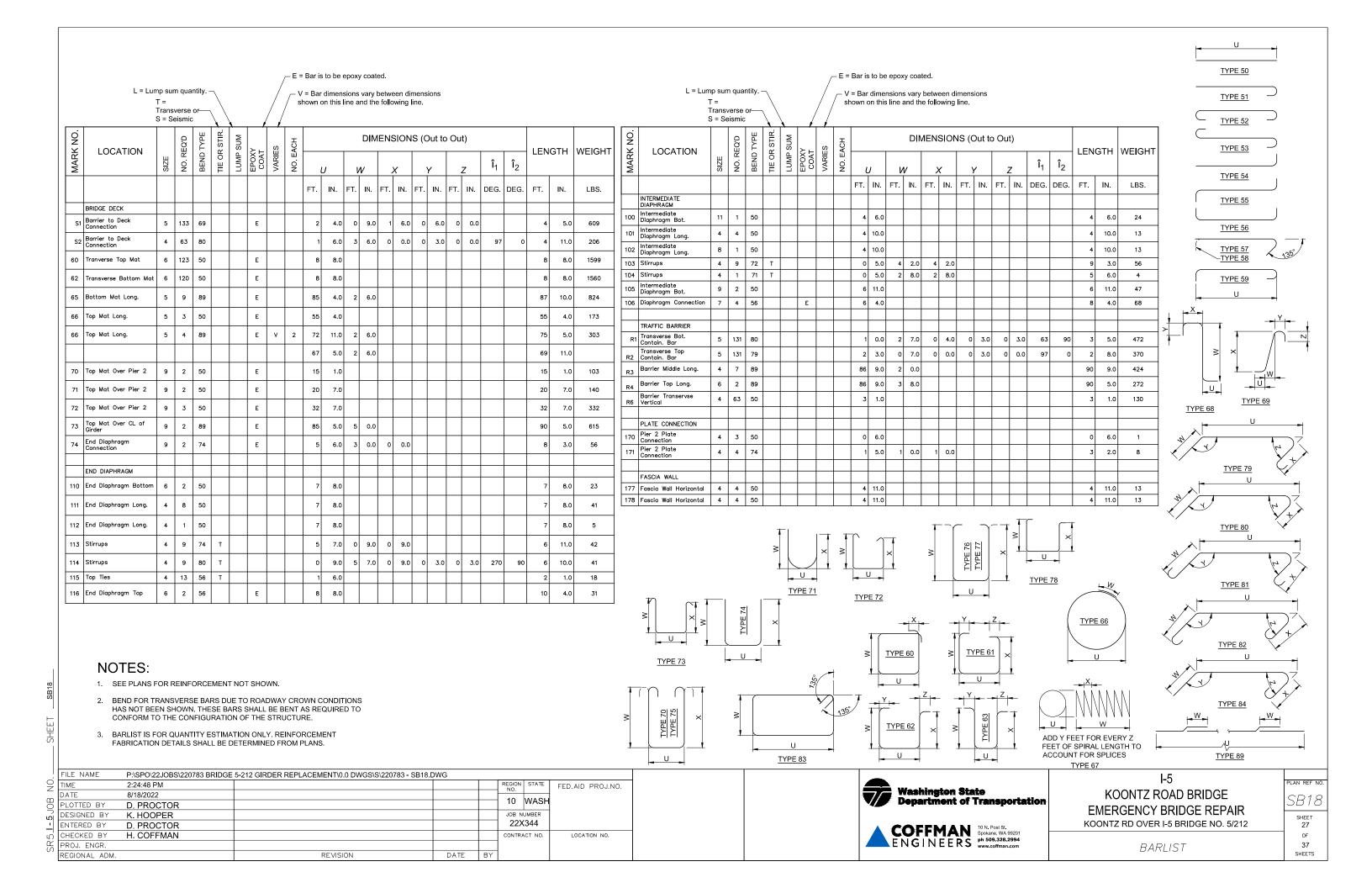


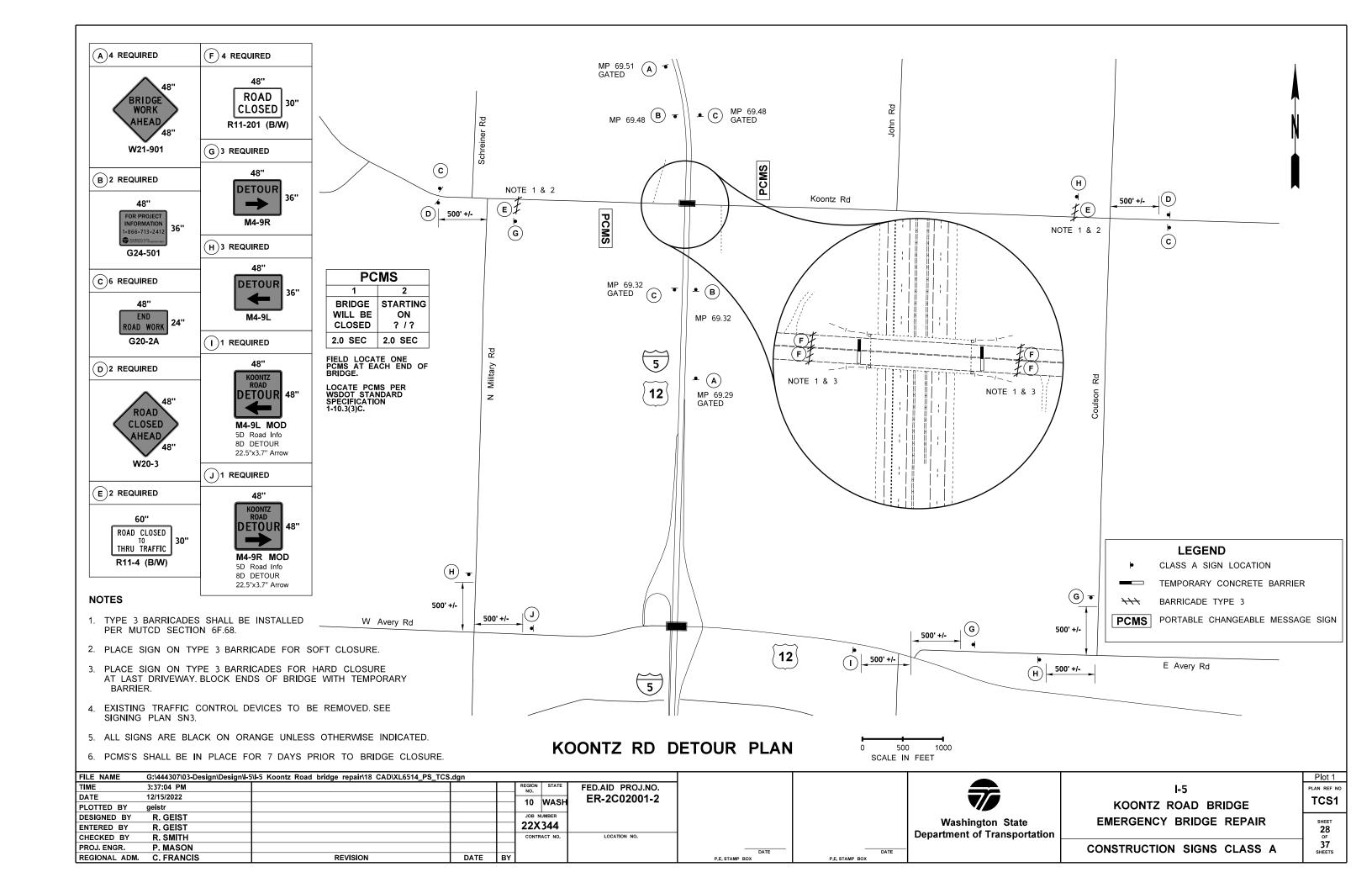
I-5
KOONTZ ROAD BRIDGE
EMERGENCY BRIDGE REPAIR
KOONTZ RD OVER I-5 BRIDGE NO. 5/212

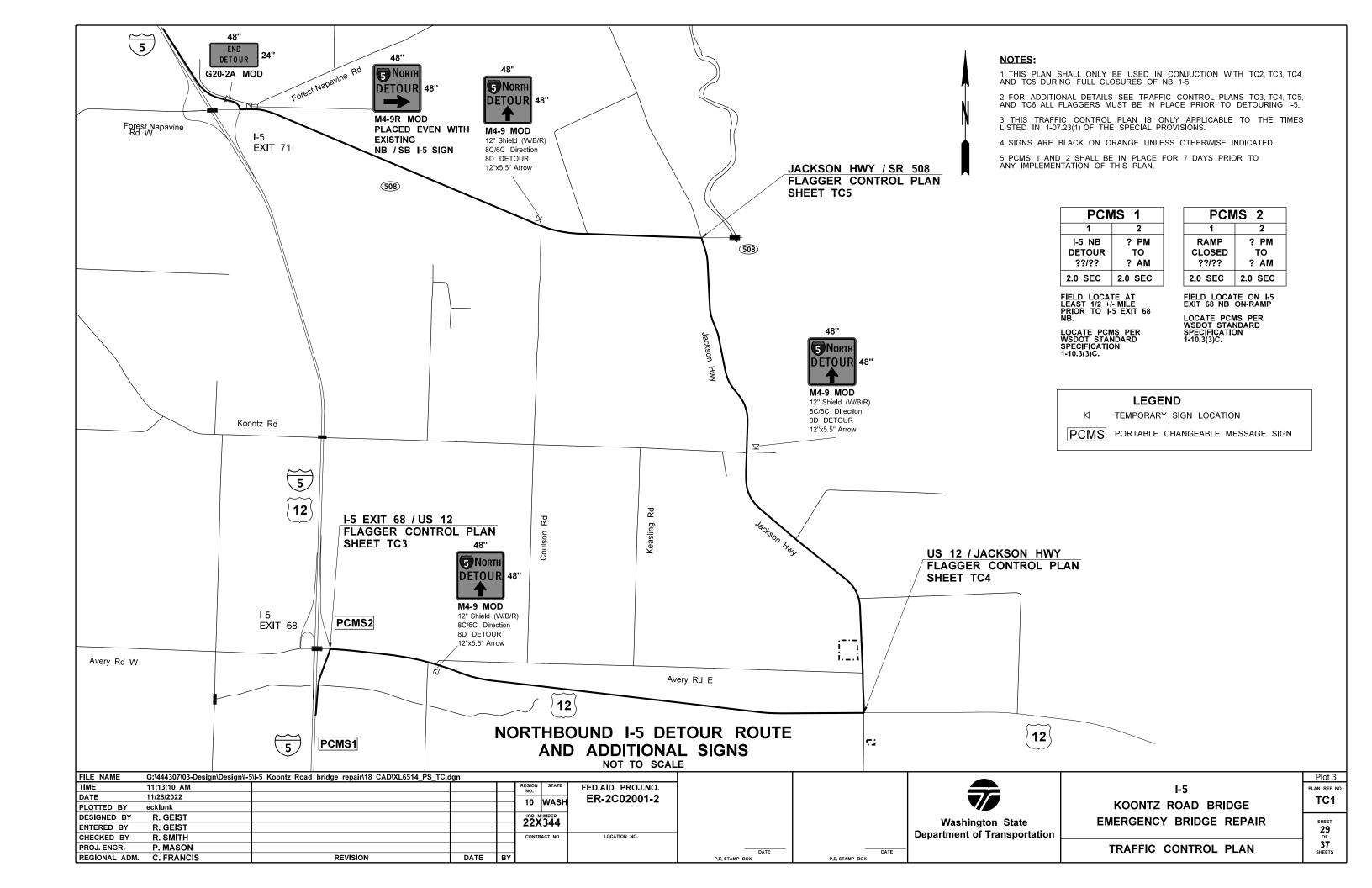
TRAFFIC BARRIER SHEET 2 OF 2 SB17

SHEET
26

OF
37
SHEETS







PCN	1 S 1	PCN	IS 2			
1	2	1 2				
SLOW	NEXT	LEFT	1 MILE			
TRAFFIC	#	LANE	AHEAD			
AHEAD	MILES	CLOSED				
2.0 SEC	2.0 SEC	2.0 SEC	2.0 SEC			
IELD LOCA EAST 1/2 +/ DVANCE OI	- MILE IN	FIELD LOCA [.] MILE IN ADV W20-1 SIGN.	TE 1/4 +/- 'ANCE OF			

FIELD LOCATE AT LEAST 1/2 +/- MILE IN ADVANCE OF PCMS 2.

RELOCATE AS NEEDED TO REMAIN 1 +/- MILE IN ADVANCE OF QUEUE.

PCMS MAY BE TRUCK MOUNTED; IF SO, THE THREE TRANSVERSE DRUMS ARE OPTIONAL.

REMOVE WHEN QUEUE NO LONGER PRESENT.

= APPROXIMATE QUEUE LENGTH ROUNDED UP TO NEAREST MILE

LOCATE PCMS PER WSDOT STANDARD SPECIFICATION 1-10.3(3)C.

LOCATE PCMS PER WSDOT STANDARD SPECIFICATION 1-10.3(3)C.

DEVICE SPACING (feet) TAPER TANGENT 50-75 40 80

MAXIMUM CHANNELIZATION

SIGN SPACING = X (1)									
FREEWAYS & EXPRESSWAYS	50-75 MPH	1500' +/-							
(1) ALL SPACING MAY BE ADJUSTED INTERCHANGE RAMPS, AT-GRADE IN (2) THIS SPACING MAY BE REDUCED ROADWAY CONDITIONS.	TO ACCOMMODATE ITERSECTIONS AND IN URBAN AREAS	DRIVEWAYS. TO FIT							

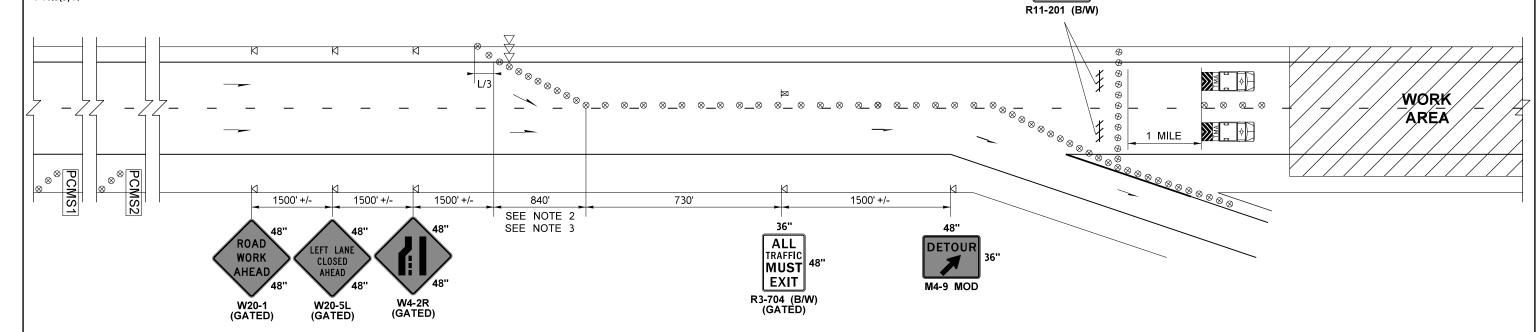
MINIMU	,	SURE	TAP	ER L	.ENG	ΓH =	L
LANE WIDTH (feet)	SPEED (MPH)	50	55	60	65	70	75
12	L (feet)	600	660	720	780	840	900
MINIMUM	SHOULDER CL	.OSUF	RE TA	PER	LENG	GTH :	= L/3
SHOULDER WIDTH (feet)	SPEED (MPH)	50	55	60	65	70	75
6	L/3 (feet)	120	120	120	160	160	160
10	L/3 (feet)	200	200	200	240	240	280
USE A	MINIMUM 3 DEVICE	S FOR	SHOU	ILDER	LESS T	ΓΗΑΝ 6	i'.

48"

ROAD CLOSED

		MINIMUM	LONG	GITUD	INAL	BUFF	ER S	PACE	: = B	
		SPEED ((MPH)	50	55	60	65	70	75	
		LENGTH	(feet)	425	495	570	645	730	820	
3	STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R									
)		HOST VE 9,900 T						_E WE 0 lbs.	EIGHT	
		50-55 MF	PH 60	O+ MP	H 5	0-55 N	ЛРН	60+ I	МРН	
J		123'		172'		100	'	150'		





LEGEND

TEMPORARY SIGN LOCATION K

TEMPORARY SIGN LOCATION (MIN. 5' MOUNTING HEIGHT)

 \otimes TRAFFIC SAFETY DRUM

SEQUENTIAL ARROW SIGN

+++ BARRICADE TYPE 3

 \bowtie

PORTABLE CHANGEABLE MESSAGE SIGN

TRANSPORTABLE ATTENUATOR

NOTES:

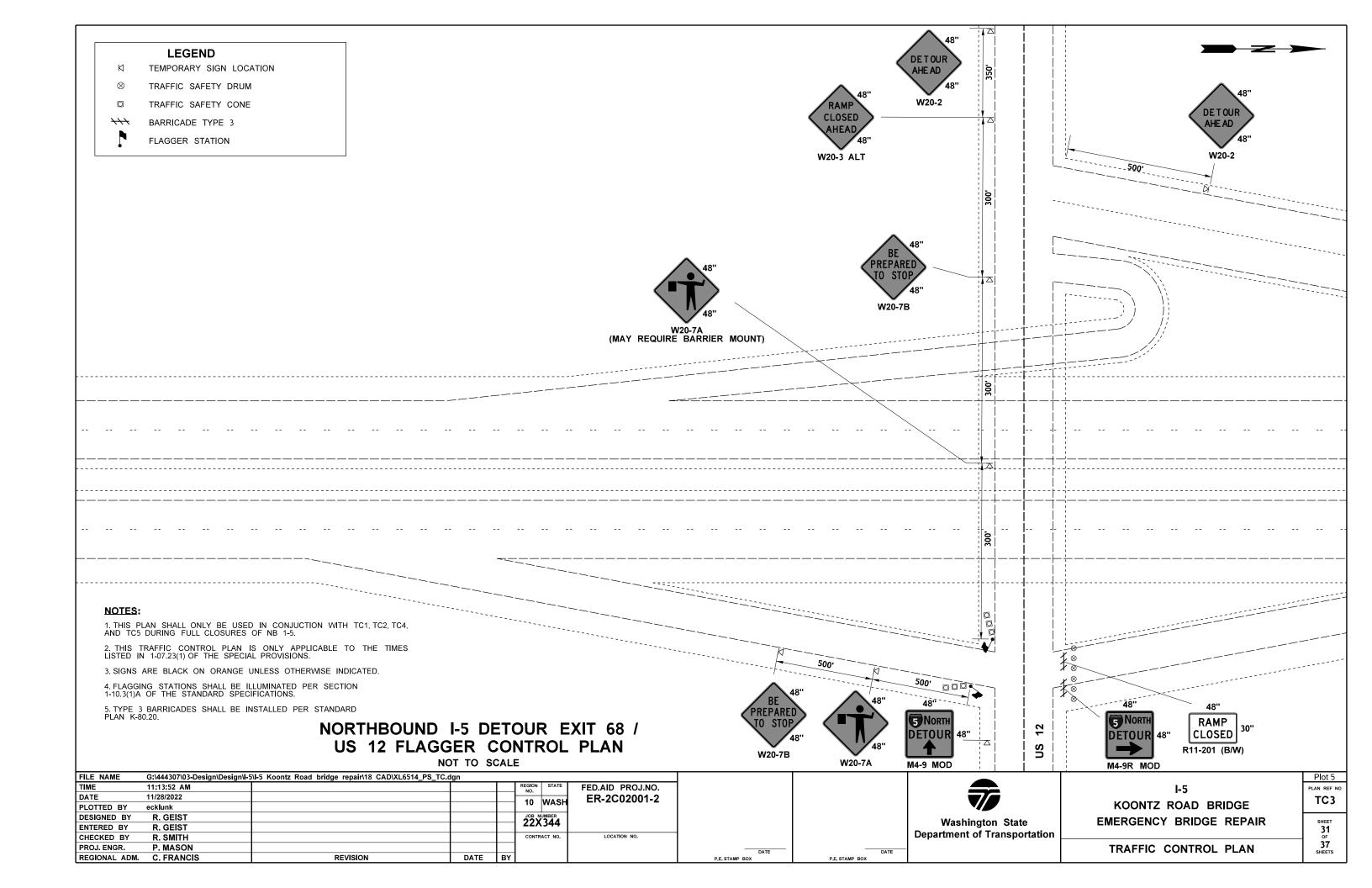
1. IF FEASIBLE, AVOID PLACING LANE CLOSURE TAPER WITHIN LIMITS OF HORIZONTAL CURVES.

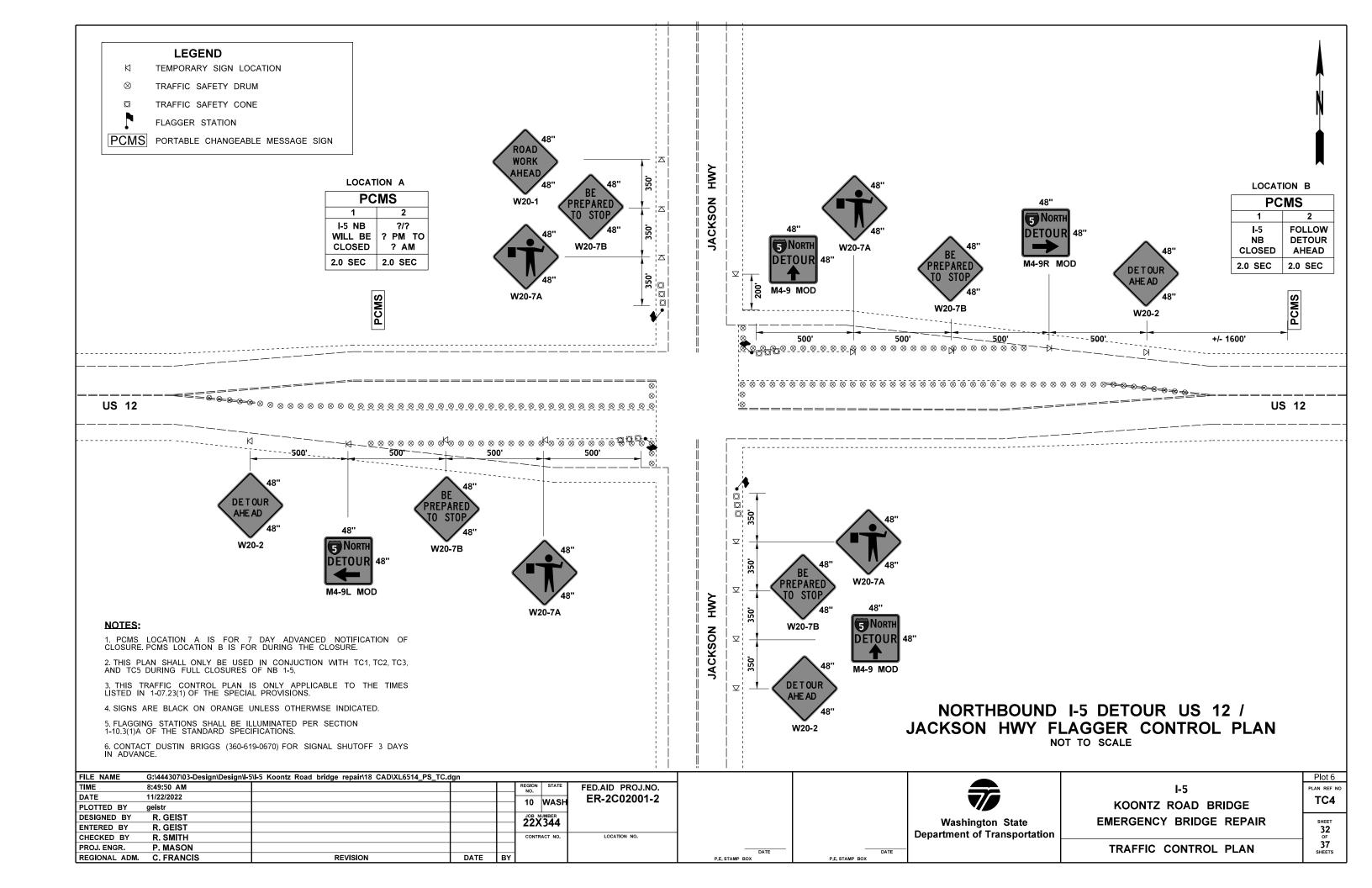
2. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.

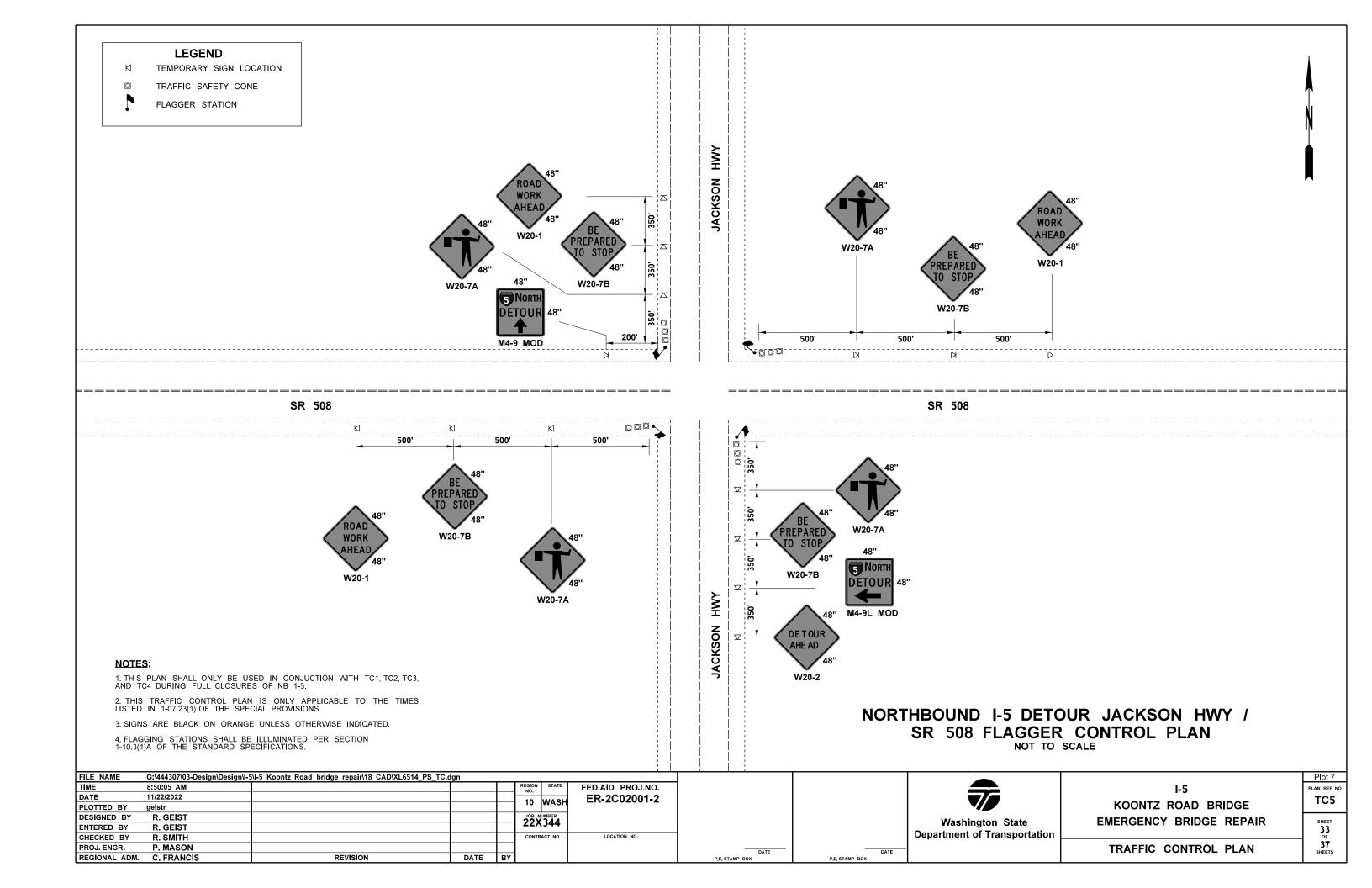
3. THIS TRAFFIC CONTROL PLAN IS ONLY APPLICABLE TO THE TIMES LISTED IN 1-07.23(1) OF THE SPECIAL PROVISIONS.

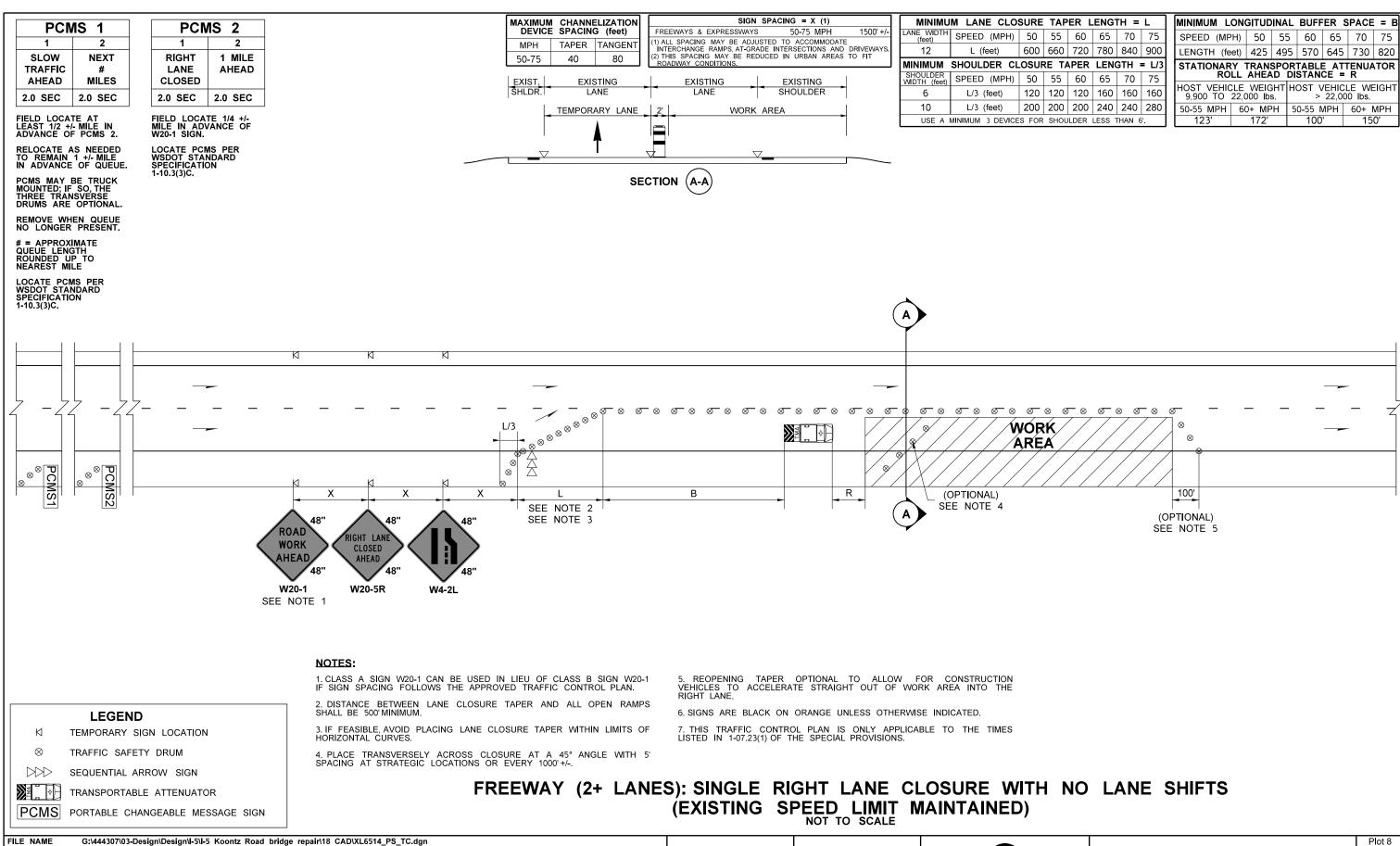
NORTHBOUND I-5 CLOSURE

FILE NAME	G:\444307\03-Design\Design\I-	-5\I-5 Koontz Road bridge repair\18 CAD\XL6514_PS_TC.	.dgn								Plot 4
TIME	8:49:18 AM				REGION STATE	FED.AID PROJ.NO.				I-5	PLAN REF NO
DATE	11/22/2022				10 WASH	ER-2C02001-2					TC2
PLOTTED BY	geistr				IU WASH					KOONTZ ROAD BRIDGE	'02
DESIGNED BY	R. GEIST				ЈОВ NUMBER 22X344				Washington State	EMERGENCY BRIDGE REPAIR	SHEET
ENTERED BY	R. GEIST				228344						30
CHECKED BY	R. SMITH				CONTRACT NO.	LOCATION NO.			Department of Transportation		OF
PROJ. ENGR.	P. MASON						DATE	DATE		TRAFFIC CONTROL PLAN	37 SHEETS
REGIONAL ADM.	. C. FRANCIS	REVISION	DATE	BY			PE STAMP BOX	P.F. STAMP BOX			SHEETS

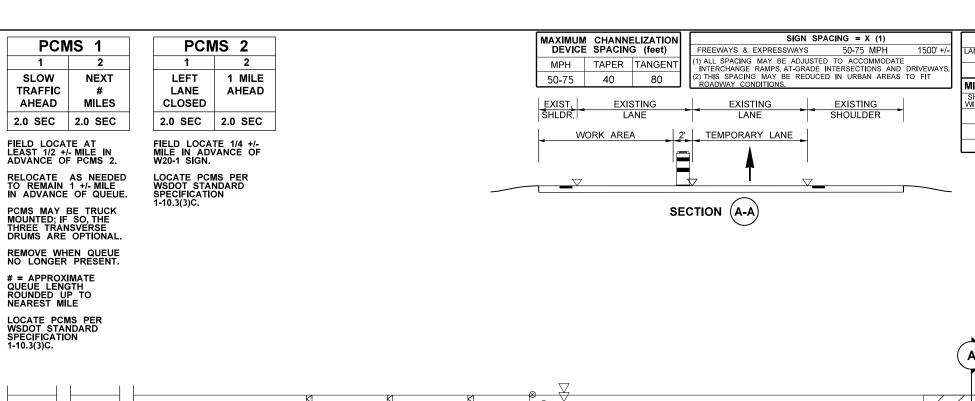


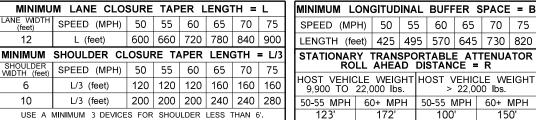




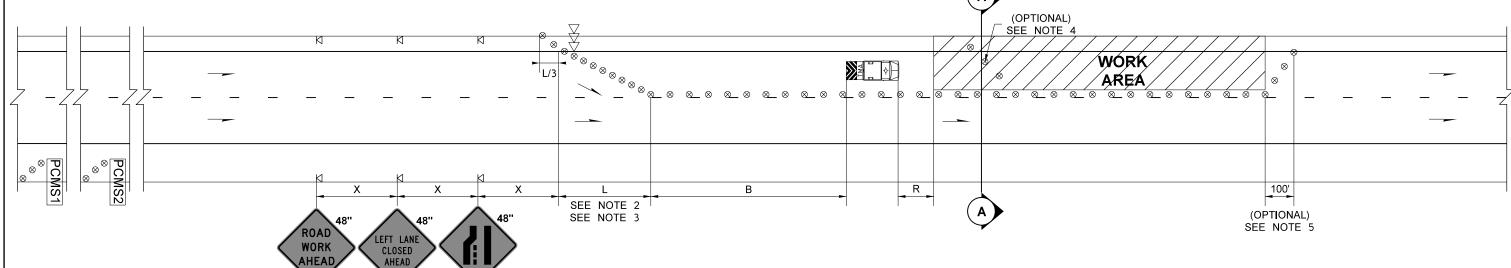


TIME 6:35:19 AM FED.AID PROJ.NO. PLAN REF NO I-5 DATE 12/13/2022 ER-2C02001-2 TC6 10 WASH KOONTZ ROAD BRIDGE PLOTTED BY geistr DESIGNED BY R. GEIST 22X344 **EMERGENCY BRIDGE REPAIR** Washington State 34 R. GEIST ENTERED BY Department of Transportation CHECKED BY R. SMITH CONTRACT NO. LOCATION NO. 37 PROJ. ENGR. P. MASON TRAFFIC CONTROL PLAN DATE DATE REGIONAL ADM. C. FRANCIS REVISION DATE ВΥ





LENGTH (feet) | 425 | 495 | 570 | 645 | 730 | 820 STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R HOST VEHICLE WEIGHT HOST VEHICLE WEIGHT 50-55 MPH | 60+ MPH | 50-55 MPH | 60+ MPH



NOTES:

W20-5L

W20-1

SEE NOTE 1

1. CLASS A SIGN W20-1 CAN BE USED IN LIEU OF CLASS B SIGN W20-1 IF SIGN SPACING FOLLOWS THE APPROVED TRAFFIC CONTROL PLAN.

W4-2R

2. DISTANCE BETWEEN LANE CLOSURE TAPER AND ALL OPEN RAMPS

3. IF FEASIBLE, AVOID PLACING LANE CLOSURE TAPER WITHIN LIMITS OF HORIZONTAL CURVES.

4. PLACE TRANSVERSELY ACROSS CLOSURE AT A 45° ANGLE WITH 5' SPACING AT STRATEGIC LOCATIONS OR EVERY 1000'+/-.

5. REOPENING TAPER OPTIONAL TO ALLOW FOR CONSTRUCTION VEHICLES TO ACCELERATE STRAIGHT OUT OF WORK AREA INTO THE

6. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.

7. THIS TRAFFIC CONTROL PLAN IS ONLY APPLICABLE TO THE TIMES LISTED IN 1-07.23(1) OF THE SPECIAL PROVISIONS.

LEGEND

TEMPORARY SIGN LOCATION N

 \otimes TRAFFIC SAFETY DRUM

SEQUENTIAL ARROW SIGN TRANSPORTABLE ATTENUATOR

PORTABLE CHANGEABLE MESSAGE SIGN

FREEWAY (2+ LANES): SINGLE LEFT LANE CLOSURE WITH NO LANE SHIFTS (EXISTING SPEED LIMIT MAINTAINED) NOT TO SCALE

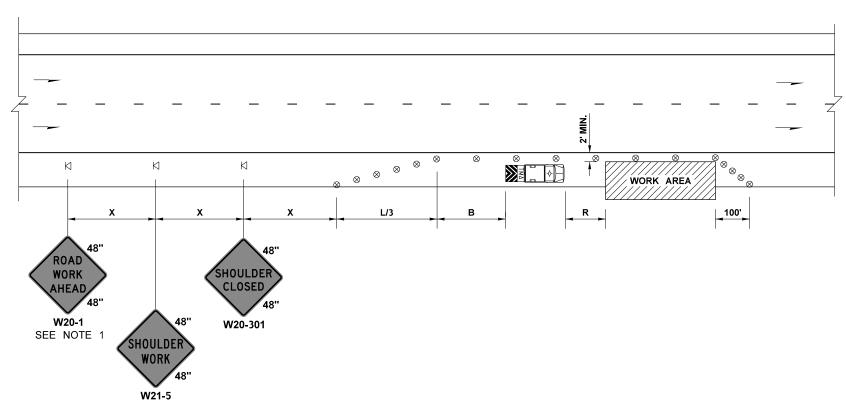
FILE NAME	G:\444307\03-Design\Design\l-5\I-5 Koontz Road bridge repair\18 CAD\XL6514_PS_TC.d	dgn							Plot 9
TIME	11:20:07 AM		REGION STATE	FED.AID PROJ.NO.	1			I-5	PLAN REF NO
DATE	11/28/2022		10 WASH	ER-2C02001-2					TC7
PLOTTED BY	ecklunk		IU WASH					KOONTZ ROAD BRIDGE	' ' '
DESIGNED BY	R. GEIST		ЈОВ NUMBER 22X344				Washington State	EMERGENCY BRIDGE REPAIR	SHEET
ENTERED BY	R. GEIST		228344				9		35
CHECKED BY	R. SMITH		CONTRACT NO.	LOCATION NO.			Department of Transportation		OF
PROJ. ENGR.	P. MASON				DATE	DATE	-	TRAFFIC CONTROL PLAN	37 SHEETS
REGIONAL ADM.	C. FRANCIS REVISION	DATE E	3Y		P.F. STAMP BOX	PE STAMP BOX			SHEETS

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)														
SHOULDER		Posted Speed (mph)												
WIDTH (feet)	25	30	35	40	45	50	55	60	65	70				
8'	-	-	-	-	120	130	150	160	170	190				
10'	-	-	-	-	150	170	190	200	220	240				
	USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.													

SIGN SPACING	= X (1)	
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
(1) ALL SPACING MAY BE ADJUSTED TO RAMPS, AT-GRADE INTERSECTIONS AN		INTERCHANGE

	LIZATION ACING (fe	
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60

	BUFFER DATA											
LONGITUDINAL BUFFER SPACE = B												
SPEED (MPH) 25 30 35 40 45 50 55 60 65 7									70			
LENGTH	(feet)	155	200	250	305	360	425	495	570	645	730	
TRANS	PORT	ABLE	ATTE	NUAT	OR R	OLL /	AHEA	D DIS	TANC	E = F	₹	
		_E WEI(2,000 lb				ŀ		VEHICLE 22,000		HT		
< 45 MPH	45 MPH 45-55 MPH				<	< 45 MPH		45-55 MPH		> 55 MPH		
100'	12	23'		172'		74'		100'		150'		
100'	12	23'		172'		74'		100'		150)' 	



LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM



TRANSPORTABLE ATTENUATOR

SHOULDER CLOSURE - HIGH SPEED

NOT TO SCALE

NOTES

- 1. CLASS A SIGN W20-1 CAN BE USED IN LIEU OF CLASS B SIGN W20-1 IF SIGN SPACING FOLLOWS THE APPROVED TRAFFIC CONTROL PLAN.
- 2. NO ENCROACHMENT IN TRAVELED LANE. IF ENCROACHMENT IS NECESSARY, LANE SHALL BE CLOSED.
- 3. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT) O.C.
- 4. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.

FILE NAME	G:\444307\03-Design\Design\I-	-5\I-5 Koontz Road bridge repair\18 CAD\XL6514_PS_TC.	.dgn							Plot 10
TIME	8:51:01 AM			REGION STATE	FED.AID PROJ.NO.	1			I-5	PLAN REF NO
DATE	11/22/2022			10 WASI	ER-2C02001-2					TC8
PLOTTED BY	geistr			T IU WASI	1				KOONTZ ROAD BRIDGE	.00
DESIGNED BY	R. GEIST			JOB NUMBER 22X344				Washington State	EMERGENCY BRIDGE REPAIR	SHEET
ENTERED BY	R. GEIST			228344				J		36
CHECKED BY	R. SMITH			CONTRACT NO.	LOCATION NO.			Department of Transportation		OF
PROJ. ENGR.	P. MASON					DATE	DATE	-	TRAFFIC CONTROL PLAN	37 SHEETS
REGIONAL ADM.	C. FRANCIS	REVISION	DATE B	Υ		P.E. STAMP BOX	P.E. STAMP BOX			STILLIS

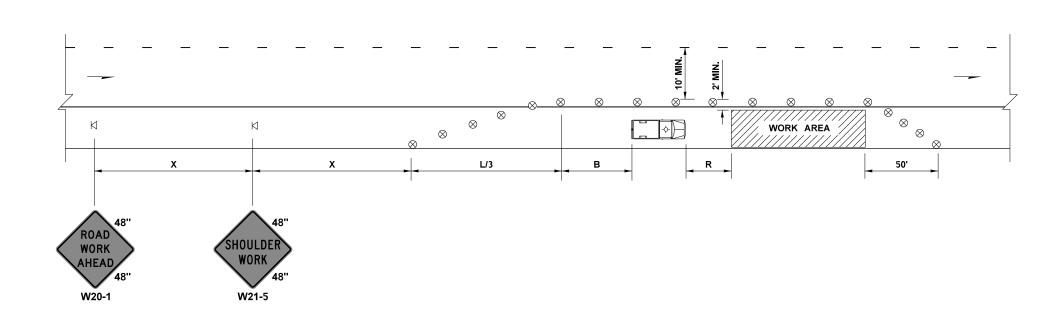
SIGN SPACING	= X (1)	
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)
(1) ALL SPACING MAY BE ADJUSTED TO	ACCOMMODATE	

INTERSECTIONS AND DRIVEWAYS.

(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

	MINIM	IUM S	HOULI	DER T	APER	LENG	TH =	L/3 (fe	et)					
SHOULDER	Posted Speed (mph)													
WIDTH (feet)	25	30	35	40	45	50	55	60	65	70				
8'	40	40	60	90	-	-	-	-	-	-				
10'	40	60	90	90	-	-	-	-	-	-				
	USE A 3 DEVICES TAPER FOR SHOULDERS LESS THEN 8'													

BUFFER DATA											
LONGITUDINAL BUFFER SPACE = B											
SPEED (MPH) 25 30 35 40 45 50 55 60 65							65	70			
LENGTH (fe	155	200	250	305	360	425	495	570	645	730	
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R											
	VEHICI 0 TO 2					ŀ	HOST	VEHICLE > 22,000		HT	
< 45 MPH	45-55	MPH	> !	55 MPH	<	< 45 MPH 4			1PH	> 55 MPH	
100'	12	23'		172'		74'		100'		150'	
PROTECTIVE VEHICLE (WORK VEHICLE) = R											
		١	NO SPI	ECIFIED	DISTA	ANCE F	REQU	IRED			



CHANNELIZATION DEVICE SPACING (feet) TAPER TANGENT 35/40 30 60 25/30 20 40

LEGEND

TEMPORARY SIGN LOCATION

TRAFFIC SAFETY DRUM

PROTECTIVE VEHICLE

SHOULDER CLOSURE - LOW SPEED (40 MPH OR LESS)

NOT TO SCALE

NOTES

- 1. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20'(FT).
- 2. ALL SIGNS ARE BLACK ON ORANGE.

											I
FILE NAME	G:\444307\03-Design\Design\I-5	i\l-5 Koontz Road bridge repair\18 CAD\XL6514_PS_TC.	dgn								
TIME	8:52:07 AM			REGION	STATE	FED.AID PROJ.NO.				I-5	PLAN REF NO
DATE	11/22/2022			10	WASH	ER-2C02001-2					ТС9
PLOTTED BY	geistr			10	WASH					KOONTZ ROAD BRIDGE	
DESIGNED BY	R. GEIST			JOB	X344				Washington State	EMERGENCY BRIDGE REPAIR	SHEET
ENTERED BY	R. GEIST			22.	^ 344				3		37
CHECKED BY	R. SMITH			CONT	TRACT NO.	LOCATION NO.			Department of Transportation		OF
PROJ. ENGR.	P. MASON						DATE	DATE	_	TRAFFIC CONTROL PLAN	37 SHEETS
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY			P.E. STAMP BOX	P.E. STAMP BOX			SILETO